

SBI PO Mains Full Length Mock Test 2 (PYQ)

Directions (1-5) Read the following passage and answer the given questions.

Study the following data carefully and answer the questions accordingly.

Seven students were given exams in different subjects on different days of a week starting from Sunday. They got different ranks from I to VII in their exams. N gives the exam of Arts but not on Tuesday and Friday. Only three days are between the person who gives the Sociology exam and the person who gives the Arts exam. N gives exam after the one who gives Sociology. The person who gives the Chemistry exam after the person who gives the Sociology exam but not on Friday and Saturday. The person who gives the Psychology exam got rank I. Only one person gives the exam between the person who gives the Chemistry and Psychology exams. More than three people and at least one person give the exams before the Psychology exam. The Geography exam is given immediately after Q who does not get an even numbered rank. M neither gives Chemistry and Psychology exams nor gets ranks I and IV. S gives the Statistics exam but four days after the person who gets VII. A neither gives the exam on Wednesday nor gets rank I and II. D gets rank III but does not give the Economics exam. F gives the exam immediately before the person who gets an odd-numbered rank in the exam and immediately after the person who gets rank II. S gets neither IV nor VI rank. A neither gives the exam immediately before S nor adjacent to Q. Q does not give the exam on Monday.

Q1

M gave the _____ exam and got rank _____.

- (A) Economics, IV (B) Arts, III
(C) Geography, VI (D) Chemistry, II
(E) None of these

Q2 How many people are giving the exams between Q and the person who gives the exam of Psychology?

- (A) 4 (B) 5
(C) 6 (D) 2
(E) None of these

Q3 Who among the following person got the rank II?

- (A) Q (B) M
(C) D (D) S
(E) None of these

Q4 Who among the following person gives the exam immediately before S?

- (A) Person who gives the exam of Chemistry
(B) Q
(C) Person who gives the exam of Geography
(D) M
(E) None of these

Q5 In a certain way if Q is related to rank VI, A is related to rank III, then who among the following person is related to rank I?

- (A) M (B) S
(C) F (D) N
(E) None of these

Directions (6-8) Read the following passage and answer the given questions.



Study the following data carefully and answer the questions accordingly.

The first 15 consecutive odd numbers are written from top to bottom such that the letters of the word LEAF are arranged in alphabetical order corresponding to the numbers which are consecutive multiples of 3 (starting from 3). Only two letters were placed between S and U. The odd number placed above S was same as the odd number below U. U was placed corresponding to the prime number. O was placed corresponding to the number which was multiple of five. No two vowels are placed adjacent to each other. Y was placed below J. Y was placed corresponding to the prime number.

Q6 How many letters are placed between E and O?

- (A) 2 (B) 6
(C) 4 (D) 5
(E) None of these

Q7 Which of the following letter is placed four places below L?

- (A) O (B) S
(C) A (D) Y
(E) None of these

Q8 Which of the following letter is placed immediately below S?

- (A) E (B) A
(C) F (D) U
(E) None of these

Q9 Study the following data carefully and answer the questions accordingly.

When a word arrangement machine is given a line of words, it arranges them following certain rules. Following is an illustration of input and rearrangement. Some terms of the steps are

missing. Read the information and answer the question that follows.

Input:- # wuzbg mpdah xresc hiopk

Step I: rweel xuach nqgai ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj & pql

Step IV: rwk **xvcch nqebj ysetd** pqk

Step V: ryk xxach \$ @ psk

Step V is the last step of output.

What will come in place of \$?

- (A) Mqebj (B) nsebj
(C) Prk (D) Nrabj
(E) None of these

Q10 Study the following data carefully and answer the questions accordingly.

When a word arrangement machine is given a line of words, it arranges them following certain rules. Following is an illustration of input and rearrangement. Some terms of the steps are missing. Read the information and answer the question that follows.

Input:- # wuzbg mpdah xresc hiopk

Step I: rweel xuach nqgai ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj & pql

Step IV: rwk **xvcch nqebj ysetd** pqk

Step V: ryk xxach \$ @ psk

Step V is the last step of output.

What will come in place of # ?

- (A) Pcaak (B) Qwuuj
(C) Qveek (D) Rwffl
(E) None of these

Q11 Study the following data carefully and answer the questions accordingly.

When a word arrangement machine is given a line of words, it arranges them following certain



rules. Following is an illustration of input and rearrangement. Some terms of the steps are missing. Read the information and answer the question that follows.

Input:- # **wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqei ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj & pql

Step IV: rwk **xvcch nqebj ysetd** pqk

Step V: ryk xxach \$ @ psk

Step V is the last step of output.

What will come in place of & ?

- (A) Ysftd (B) Ftd
(C) Paj (D) Yfd
(E) None of these

Q12 Study the following data carefully and answer the questions accordingly.

When a word arrangement machine is given a line of words, it arranges them following certain rules. Following is an illustration of input and rearrangement. Some terms of the steps are missing. Read the information and answer the question that follows.

Input:- # **wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqei ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj & pql

Step IV: rwk **xvcch nqebj ysetd** pqk

Step V: ryk xxach \$ @ psk

Step V is the last step of output.

Which one is wrong between italic and bold?

- (A) **Xvcch** (B) **Nqebj**
(C) **ysetd** (D) Both A and B
(E) Both B and C

Q13 Study the following data carefully and answer the questions accordingly.

When a word arrangement machine is given a line of words, it arranges them following certain rules. Following is an illustration of input and rearrangement. Some terms of the steps are missing. Read the information and answer the question that follows.

Input:- # **wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqei ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj & pql

Step IV: rwk **xvcch nqebj ysetd** pqk

Step V: ryk xxach \$ @ psk

Step V is the last step of output.

What will come in place of @ ?

- (A) trk (B) Yuetd
(C) Qrbtj (D) Xwach
(E) None of these

Q14 Study the following data carefully and answer the questions accordingly.

Statement:- University officials have tried to reduce the amount of drugs used by students. Yet one need only look at the decline in student graduation rates over the past decade to realize the magnitude of the drug problem on campus.

Which of the following assumptions, if true, weakens the statement above for decline in success rate of students independent of drug use by students?

- (A) Today's students are much less capable than students a decade ago.
(B) Truancy rates have increased over the past decade.
(C) Students are no longer as interested as before.
(D) Everywhere we see a general decline in standards.
(E) None of these



Q15 Study the following data carefully and answer the questions accordingly.

Tobacco accounts for only 35% of tobacco consumption in India and less than 25% of the 421 million tobacco users use cigarettes. However, this 17% contributes to nearly 75% of Treasury tax revenue from the tobacco sector. The punitive tobacco tax regime has kept the tax base narrow, and tax cuts will widen the tax base.

Which one of the following assumptions best bolsters the fact that reducing duties will expand the tax base?

- (A) The Association of Tobacco Manufacturers decided to engage in active promotion
- (B) It is possible that tobacco users will switch to cigarettes if cigarette prices decrease.
- (C) Cigarette manufacturers lobbied for a reduction in customs duties
- (D) Increasing taxes on tobacco other than cigarettes could lead to a shift in smoking
- (E) None of these

Q16 Each question given below is followed by two arguments numbered I, II, and III. You have to identify the strong and weak arguments among them.

Statement:-

Ought to garbage nourishment be prohibited in schools and colleges?

Arguments:-

- I) Yes, Garbage nourishment incorporates a negative impact on children. It can make them hyperactive, appalling and touchy which makes it difficult for them to concentrate.
- II) No, it is the student's favorite nibble thing to eat at interims.
- III) Yes, Garbage nourishment is likely to have

tall levels of calories with small proteins, vitamins, and minerals.

- (A) If only argument I is strong.
- (B) If only argument II is strong.
- (C) If either argument I or II is strong.
- (D) If neither argument I nor II is strong.
- (E) If All I, II, and III are strong

Q17 Study the following data carefully and answer the questions accordingly.

Statement:- The male Amazon white bellbird has the loudest call recorded.

Arguments:-

- I) The call of the bellbird can reach 199 decibels, almost as loud as a very loud rock concert and seven decibels louder than the loudest recorded call of the loudest bird (*Lipaugusvociferans*), the species that has holds the previous record for the loudest bird in the world. .
- II) Female bellbirds may sit close to a noisy male to better evaluate it, researchers say. But we don't know why it risks damaging his hearing.
- (A) If only argument I is strong
- (B) If only argument II is strong
- (C) If either I or II is strong
- (D) If neither I or II is strong
- (E) If both I and II are strong

Q18 Study the following data carefully and answer the questions accordingly.

Higher disposal costs encourage waste producers to look for cheaper ways to dispose of it. The term disposal costs is used to describe additional costs directly related to the disposal of assets, contracts or cash-generating units. Disposal costs are typically a future liability that is recorded on the income statement when it is incurred.



Course of Action:

1. Processing costs should increase.
 2. Processing costs should be reduced.
 3. A committee should be formed to study this issue in detail.
- (A) Only 1 follows
 (B) Only 2 follows
 (C) Only 2 & 3 follow
 (D) None follows
 (E) All follow

Q19 Study the following data carefully and answer the questions accordingly.

Almost all medical experts agree that passive smoking poses a serious health risk. Following the release of another research paper explaining the link between exposure to secondhand smoke and a shorter life expectancy, several state House members proposed a smoking ban in most states where public plus the purpose of improving quality of life and longevity.

Which of the following conclusions, if true, provides the most support for the actions of the State Representatives mentioned in the statement?

- (A) The amount of chemicals and toxic vapors released into the air from cigarette smoke is much less than the amount emitted from cars, especially older car models.
- (B) Banning smoking in most public places would not significantly reduce the state's smoking population.
- (C) The state where lawmakers are proposing strict smoking laws has a relatively high percentage of its population that smokes.
- (D) Another state that passed a similar law a decade ago saw a statistically significant decrease in lung cancer rates among nonsmokers.

- (E) None of these

Q20 Below in each of the questions are given two statements I and II. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statements. Read both statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

I. Bodies of water, especially oceans and seas, are an indispensable part of our existence. This essential factor has led to the exploitation of ocean resources. It is estimated that billions of tons of waste are dumped into the ocean every year, leading to 250 million tons of waste dumped into the ocean. Dumping wastewater into the ocean is always considered the cheapest and simplest way to remove waste.

II. Excessive use of groundwater in our agricultural industries leads to reduced productivity and wastage of water. More than 70% of our water is used to grow crops and much of it is wasted due to leaky pipes and poor watering techniques. Inadequate training and education leads to unnecessary daily waste of clean water, as well as over-exploitation in areas that do not need much water.

- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements I and II are independent causes
- (D) Both the statements I and II are effects of independent causes
- (E) Both the statements I and II are effects of some common cause



Q21 Study the following information carefully and answer the questions accordingly.

Statement 1: The US decided to withdraw from the memorandum of understanding on the repatriation of illegal migrants.

Statement 2: American students cannot relax visa rules – which have been expanded to 15 other countries, including Pakistan and Russia.

- (A) Statement 1 is the cause; statement 2 is the effect
- (B) Statement 2 is the cause; statement 1 is the effect
- (C) Statement 1 is the cause but statement 2 is not effect
- (D) Statement 1 and 2 are independent statements
- (E) Statement 1 and statement 2 are independent effects of independent causes.

Q22 Study the following information carefully and answer the questions accordingly.

Who among U, V, W, X, Y, and Z joins the meeting on tuesday (in a week starting from Monday)?

Statement 1: V joins immediately after Z. Only two persons Join between Z and U.

Statement 2: X Joins two days before Z who joins after U. Y joins immediately before U.

- (A) If the data given in statement I alone is sufficient to answer the question.
- (B) If the data given in statement II alone is sufficient to answer the question.
- (C) If the data given in either statement I or statement II alone is sufficient to answer the question.
- (D) If the data given in both statement I and statement II together are not sufficient to answer the question.
- (E) If the data given in both statement I and statement II together are sufficient to answer

the question.

Q23 In the question below there are two or three conclusions followed by four statements in the options. You have to take the four given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given statements is true disregarding the commonly known facts.

Conclusions:-

I. A few Laptops are not Mobiles

II. Some Mobiles may be Computers

- (A) No Smartphone are Laptops. All Laptops are Macbook. No Macbook are Computers. Some Mobiles are Macbook.
- (B) Some Smartphone are Laptops. Some Laptops are Macbook. All Macbook are Computers. No Mobiles are Macbook.
- (C) Some Smartphone are Laptops. No Laptops are Macbook. No Macbook are Computers. All Mobiles are Macbook.
- (D) No Smartphone are Laptops. No Laptops are Macbook. All Macbook are Computers. No Mobiles are Macbook.
- (E) None of These

Directions (24-26) Read the following passage and answer the given questions.

Study the following data carefully and answer the questions accordingly.

In a certain code Language:

"Plunged Lodged Fraught Fissures" is coded as

"mn tp gm rk"

"Plunged Grudges Skirmish Travesty" is coded as

"st & mn pz"

"Plunged Dallied Solicitor Rigorous" is coded as

"qv tp xu be"

Q24 What can be at the place of &?

- (A) mn
- (B) rk
- (C) gm
- (D) st



(E) None of these

Q25 What is wrong in third statement?

- (A) be (B) xu
(C) tp (D) qv
(E) None of these

Q26 If "Dallied Skirmish Travesty" is coded as "qv tn pz ", then what is the code for the word "Grudges" in the given code language?

- (A) qv (B) st
(C) pz (D) mn
(E) None of these

Directions (27-29) Read the following passage and answer the given questions.

Study the following data carefully and answer the questions accordingly.

In a certain code Language:

"Plunged Lodged Fraught Fissures" is coded as "mn tp gm rk"

"Plunged Grudges Skirmish Travesty" is coded as "st & mn pz"

"Plunged Dallied Solicitor Rigorous" is coded as "qv tp xu be"

Q27 What can be at the place of &?

- (A) mn (B) rk
(C) gm (D) st
(E) None of these

Q28 What is wrong in third statement?

- (A) be (B) xu
(C) tp (D) qv
(E) None of these

Q29 If "Dallied Skirmish Travesty" is coded as "qv tn pz ", then what is the code for the word "Grudges" in the given code language?

- (A) qv (B) st
(C) pz (D) mn

(E) None of these

Directions (30-32) Read the following passage and answer the given questions.

Study the following data carefully and answer the questions accordingly.

In a certain code Language:

"Plunged Lodged Fraught Fissures" is coded as "mn tp gm rk"

"Plunged Grudges Skirmish Travesty" is coded as "st & mn pz"

"Plunged Dallied Solicitor Rigorous" is coded as "qv tp xu be"

Q30 What can be at the place of &?

- (A) mn (B) rk
(C) gm (D) st
(E) None of these

Q31 What is wrong in third statement?

- (A) be (B) xu
(C) tp (D) qv
(E) None of these

Q32 If "Dallied Skirmish Travesty" is coded as "qv tn pz ", then what is the code for the word "Grudges" in the given code language?

- (A) qv (B) st
(C) pz (D) mn
(E) None of these

Q33 Study the following information carefully and answer the questions accordingly.

There were eight persons E, F, G, H, P, Q, R, and S in the company and they were of different ages. They were born in four months from May, June, July, September (but not in the same year) i.e. two persons were born in each month but not necessarily in the same order. Age of all the persons was from 9 to 20 years. No two people are the same age.



E was not born in the last. Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. Difference between the age of G and R was 7 less than the age of Q. P was older than H and his age is not 17. Q was not born after July. E was not born in the month having an odd number of days. H was not born in the same month as E was born. P was born in July but not in the same month as Q and H. Person whose age is 9 years was not born in September. G neither born with P nor born in May. H was not born in May and he was not the born three persons after P. Age of both the persons born in may is more than 33 years. F's age was five more than E's age and they were not born in the same month. Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. Difference between the age of E and Q was 3 less than the difference between the age of P and G. G's age was multiple of 5 but not more than 14. E's age was not even numbered. S was not born in the month having an even number of days. P was not born adjacent to the person who was born in September. Persons who were born in may having odd numbered ages. There was one person between G and the person whose age is multiple of 7. E's age was 6 less than the person who was born immediately before E. H's age is 7 less than the age of P. R was not born after S.

What is the sum of the ages of R, Q and F with respect to the final arrangement?

- (A) 36 (B) 65
(C) 49 (D) 29
(E) None of these

Q34 Study the following information carefully and answer the questions accordingly.

There were eight persons E, F, G, H, P, Q, R, and S in the company and they were of different ages. They were born in four months from May, June, July, September (but not in the same year) i. e two persons were born in each month but not necessarily in the same order. Age of all the persons was from 9 to 20 years. No two people are the same age.

E was not born in the last. Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. Difference between the age of G and R was 7 less than the age of Q. P was older than H and his age is not 17. Q was not born after July. E was not born in the month having an odd number of days. H was not born in the same month as E was born. P was born in July but not in the same month as Q and H. Person whose age is 9 years was not born in September. G neither born with P nor born in May. H was not born in May and he was not the born three persons after P. Age of both the persons born in may is more than 33 years. F's age was five more than E's age and they were not born in the same month. Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. Difference between the age of E and Q was 3 less than the difference between the age of P and G. G's age was multiple of 5 but not more than 14. E's age was not even numbered. S was not born in the month having an even number of days. P was not born adjacent to the person who was born in September. Persons who were born in may having odd numbered ages. There was one person between G and the person whose age is multiple of 7. E's age was 6 less than the person who was born immediately before E. H's age is 7 less than the age of P. R was not born after S.

How many persons were born between S and the person who was born immediately before



H?

- (A) 3 (B) 5
(C) 4 (D) 2
(E) None of these

Q35 Study the following information carefully and answer the questions accordingly.

There were eight persons E, F, G, H, P, Q, R, and S in the company and they were of different ages. They were born in four months from May, June, July, September (but not in the same year) i. e two persons were born in each month but not necessarily in the same order. Age of all the persons was from 9 to 20 years. No two people are the same age.

E was not born in the last. Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. Difference between the age of G and R was 7 less than the age of Q. P was older than H and his age is not 17. Q was not born after July. E was not born in the month having an odd number of days. H was not born in the same month as E was born. P was born in July but not in the same month as Q and H. Person whose age is 9 years was not born in September. G neither born with P nor born in May. H was not born in May and he was not the born three persons after P. Age of both the persons born in may is more than 33 years. F's age was five more than E's age and they were not born in the same month. Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. Difference between the age of E and Q was 3 less than the difference between the age of P and G. G's age was multiple of 5 but not more than 14. E's age was not even numbered. S was not born in the month having an even number of days. P was not born adjacent to the person who was born in September. Persons who were

born in may having odd numbered ages. There was one person between G and the person whose age is multiple of 7. E's age was 6 less than the person who was born immediately before E. H's age is 7 less than the age of P. R was not born after S.

What is the age of the person who was born immediately after P?

- (A) 19 (B) 15
(C) 9 (D) 14
(E) None of these

Q36 Study the following information carefully and answer the questions accordingly.

There were eight persons E, F, G, H, P, Q, R, and S in the company and they were of different ages. They were born in four months from May, June, July, September (but not in the same year) i. e two persons were born in each month but not necessarily in the same order. Age of all the persons was from 9 to 20 years. No two people are the same age.

E was not born in the last. Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. Difference between the age of G and R was 7 less than the age of Q. P was older than H and his age is not 17. Q was not born after July. E was not born in the month having an odd number of days. H was not born in the same month as E was born. P was born in July but not in the same month as Q and H. Person whose age is 9 years was not born in September. G neither born with P nor born in May. H was not born in May and he was not the born three persons after P. Age of both the persons born in may is more than 33 years. F's age was five more than E's age and they were not born in the same month. Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born.



Difference between the age of E and Q was 3 less than the difference between the age of P and G. G's age was multiple of 5 but not more than 14. E's age was not even numbered. S was not born in the month having an even number of days. P was not born adjacent to the person who was born in September. Persons who were born in may having odd numbered ages. There was one person between G and the person whose age is multiple of 7. E's age was 6 less than the person who was born immediately before E. H's age is 7 less than the age of P. R was not born after S.

Q was born in the month_____ and his age is _____.

- (A) July, 19 (B) August, 15
(C) May, 10 (D) June, 16
(E) None of these

Q37 Study the following information carefully and answer the questions accordingly.

There were eight persons E, F, G, H, P, Q, R, and S in the company and they were of different ages. They were born in four months from May, June, July, September (but not in the same year) i. e two persons were born in each month but not necessarily in the same order. Age of all the persons was from 9 to 20 years. No two people are the same age.

E was not born in the last. Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. Difference between the age of G and R was 7 less than the age of Q. P was older than H and his age is not 17. Q was not born after July. E was not born in the month having an odd number of days. H was not born in the same month as E was born. P was born in July but not in the same month as Q and H. Person whose age is 9 years was not born in September. G neither born with P nor born in May. H was not

born in May and he was not the born three persons after P. Age of both the persons born in may is more than 33 years. F's age was five more than E's age and they were not born in the same month. Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. Difference between the age of E and Q was 3 less than the difference between the age of P and G. G's age was multiple of 5 but not more than 14. E's age was not even numbered. S was not born in the month having an even number of days. P was not born adjacent to the person who was born in September. Persons who were born in may having odd numbered ages. There was one person between G and the person whose age is multiple of 7. E's age was 6 less than the person who was born immediately before E. H's age is 7 less than the age of P. R was not born after S.

Which of the following statement(s) is/are correct with respect to the final arrangement?

- (A) E was born in May
(B) R and S was not born in the same month
(C) H's age is 13
(D) Two person were born between G and S
(E) All are correct

Directions (38-41) Read the following passage and answer the given questions.

Study the following information carefully and answer the questions accordingly.

S#T(15m) means S is 20m north of T

S@T(19m) means S is 24m south of T

S%T(12m) means S is 17m east of T

S&T(17m) means S is 22m west of T

Note:- S@%T means S is south-east of T

Condition 1: A#C(15), L%O(5), S@L(17), O@C(12)

Condition 2: J&C(25), Q%K(13), K@J(12), Q#V(17),

U@G(5), U%T(19), G&V(5)



- Q38** What is the direction of A with respect to U?
 (A) North (B) East
 (C) North-East (D) South-East
 (E) None of these
- Q39** What is the total distance between C and Q?
 (A) 47m (B) 65m
 (C) 87m (D) 52m
 (E) None of these
- Q40** What is the shortest distance between G and T?
 (A) 26m (B) 27m
 (C) 28m (D) 29m
 (E) None of these
- Q41** Four of the following are alike in a certain way. Which of the following does not belong to the group?
 (A) A, C (B) Q, V
 (C) C, O (D) J, K
 (E) G, T

Directions (42-46) Read the following passage and answer the given questions.

Study the following information carefully and answer the questions accordingly.

Ten people namely L, M, N, O, P, Q, R, S, T, and U of three generations were lived in a family and they were seated in a linear row for a meeting but not necessarily in the same order. Some of them facing north and some of them facing south.

Only three persons were seated between L's husband and R's husband and both were facing same direction. S is the only son of M and was seated adjacent to R's husband. Immediate neighbour of S were not facing north. Mother of P was seated immediate right of S who was seated sixth to the right of N. One

person were seated between N and R who is the sibling of S and U. O's wife is the only neighbour of R. P was seated second to the left of U's brother and was facing south. Only two persons were seated between M and L. Q and L were seated immediately left to each other. N was the son of Q. Father of P was seated immediate right of M. R and O were facing the same direction but opposite to U's mother-in-law. P and R have same gender.

- Q42** Who among the following person is granddaughter of L?
 (A) N (B) U
 (C) P (D) S
 (E) None of these
- Q43** How many person were seated between R and The person who was seated immediate left of T?
 (A) 5 (B) 3
 (C) 6 (D) 7
 (E) None of these
- Q44** Who among the following person was seated second to the right of L?
 (A) P (B) T
 (C) S (D) Q
 (E) None of these
- Q45** Who among the following person is the daughter of O?
 (A) S (B) R
 (C) T (D) N
 (E) None of these
- Q46** As many persons were seated to the right of M was the same as to the left of -----.
 (A) The person who was immediate right of T
 (B) O
 (C) The person who was seated second to the right of N



- (D) S
(E) None of these

Directions (47-51) Read the following passage and answer the given questions.

Study the following information carefully and answer the questions accordingly.

16 letters A to P are placed in the form of a 4*4 matrix.

Note:- Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column.

Example- Z is not placed in the column of Y and the row of Y.

H was placed to the north of C but not immediately north. Only N was placed to the west of C. Only one letter was placed between H and J either in the same row or in the same column. I was placed neither in the row of N nor in the column of N. B was placed immediately south-west of I and north of L. G was placed in the south-east of O and P. P and O were placed in the adjacent columns. E was placed immediately north-west of M. F was not placed in the same row of H and S. P was not placed in the row of K which was placed to the west of D.

Q47 Which of the following letter was immediately north-east of N?

- (A) F (B) K
(C) J (D) B
(E) None of these

Q48 Which of the following letter following person was placed south of D?

- (A) A (B) E
(C) K (D) H
(E) None of these

Q49 Which of the following letter immediately west of M?

- (A) K (B) B

- (C) C (D) D
(E) None of these

Q50 Which of the following letter was placed exactly between P and E?

- (A) O (B) D
(C) J (D) M
(E) None of these

Q51 Which of the following statement(s) is/are correct with respect to the final arrangement?

- (A) K was adjacent to E
(B) Only one letter was placed immediately west of I
(C) A was placed north of H
(D) C was placed middle of the L and N
(E) All are correct

Q52 Every question is followed by a set of 3 statements out of which one or more could be true. Choose the option which contains all true statements.

Amit and Bheem together can finish a work in 10 days. Charan is 75% as efficient as Bheem. Bheem and Charan can together finish the work in $\frac{120}{7}$ days.

- A. Bheema alone can finish the work in 30 days.
B. If Bheem and Charan work together with Charan destroying the work, the work gets completed in 120 days.
C. Dhanush can alone finish the work in 18 days. If Amit and Dhanush work together, the work gets finished in $\frac{90}{11}$ days.

- (A) A, B
(B) A, C
(C) A, C, B
(D) B, C
(E) None of these

Q53 In the following question, two statements numbered I and II are given. On solving them,



we get quantities I and II, respectively. Solve for both quantities and choose the correct option.

Quantity I: $(P - Q)(Q - R)(R - P)$

+ PQR

Quantity II: $(PQ + QR)(P^2 + Q^2 + R^2)$

Given, $1 \leq P \leq 3$, $4 \leq Q \leq 6$, and $7 \leq R \leq 9$

- (A) Quantity I $\leq$ Quantity II
- (B) Quantity I $\geq$ Quantity II
- (C) Quantity I $<$ Quantity II
- (D) Quantity I $>$ Quantity II
- (E) Quantity I = Quantity II

Directions (54-56) Read the following passage and answer the given questions.

Directions: Study the following information carefully and answer the related questions.

There are two groups of people i.e., P and Q who sent their resumes to the company A , B and C . In each group, every person can speak at least one language among French, German and Spanish. Only people who can speak at least two languages among French, German and Spanish were called for the interview in any one of the three companies among A , B and C .

Group P : 44% of people can speak German while 50% of people can speak French. 13% of people can speak only Spanish. 86 people can speak French but not German. 11% of people can speak only German. The Number of people who can speak only French and the number of people who can speak all three languages together is 44. 74 people can speak Spanish but not German.

Group Q : 56% of people can speak Spanish which is 10 more than the number of people who cannot speak French.

34.4% of people can speak Spanish but not French. 12% of people can speak all three languages which is 2 more than the number of

people who can speak only French. 120 people can speak French. Respective ratio of the number of people who can speak only Spanish to the number of people who can speak both Spanish and French but not German is 9 : 4.

Some information is also known:

- Respective ratio of male to female who were called for the interview from group P is 2 : 1.
- Out of people who were called for an interview from group Q , 25% were males.

Q54 Quantity I: Number of people who can speak German but not Spanish in group P .

Quantity II: Number of people who can speak only French in group P and Q .

Quantity III: Number of people who can speak Spanish but not German in group Q .

- (A) Quantity II $<$ Quantity I
 $<$ Quantity III
- (B) Quantity III $<$ Quantity II
 $>$ Quantity I
- (C) Quantity I $<$ Quantity II
 $<$ Quantity III
- (D) Quantity I $>$ Quantity II
 $<$ Quantity III
- (E) Quantity II $>$ Quantity I
 $>$ Quantity III

Q55 Out of total people called for interview from group Q , if $(2k + 1)$ people were called by company A , $(k + 11)$ people were called by company B and rest 16 were called by company C , then ' k ' is equal to -

- (A) 28
- (B) 32
- (C) 24
- (D) 20
- (E) 36

Q56 Number of males who called for an interview from both the groups together is what percent of the difference



between the number of people who can speak only one language in group P and Q ?

- (A) 228% (B) 180%
(C) 200% (D) 267.5%
(E) 302.5%

Directions (57–58) Read the following passage and answer the given questions.

Directions: Study the data carefully and answer the following questions:

Series I: 190, 191, 255, 498, P , 879, 915

Series II: 44, 48, 75, 91, Q , 252

Series III: 919, 922, 932, R , 1027, 1154

- Q57** What is the unit digit of $[5^P + 2^Q + 6^R]$?
(A) 2 (B) 7
(C) 1 (D) 3
(E) 8

- Q58** What is the value of $\left[\frac{P}{29} + \sqrt[3]{Q} - \sqrt{R}\right]$?
(A) 1 (B) 2
(C) 3 (D) 4
(E) 5

- Q59** Each question below is followed by three statements I, II and III. You have to determine whether the data given in the statement is sufficient for answering the question.

A mixture contains y litres mixture of milk and water which contains milk and water in the ratio $a : b$ respectively. The milkman sold z litres of the mixture and added 10 litres of pure milk and 8 litres of water to the remaining mixture such that the ratio of milk and water in the final mixture became $5 : 4$ respectively. Find the respective ratio of amount of milk in the initial mixture and amount of milk in the final mixture.

Statement I: A 54 litres mixture of syrup and water contains syrup and water in the ratio $a : b$ respectively. If 10 litres of syrup and 6 litres of water is added to the mixture, the ratio of syrup and water becomes $4 : 3$ respectively.

Statement II: A 60 litres mixture of milk and water contains milk and water in the ratio $7 : 5$ respectively. If z litres of the mixture is replaced with water, the ratio of milk and water in the mixture becomes $7 : 23$ respectively.

Statement III: $y = 3z$

- (A) Only I and II together
(B) Either I or II and III together
(C) Any two of the three
(D) All I, II and III together
(E) Cannot be answered even after combining all the three statements

- Q60** The question is followed by a set of four statements out of which one or more could be true. Choose the option which contains all true statements.

A principal of Rs 12,000 is invested in various Schemes.

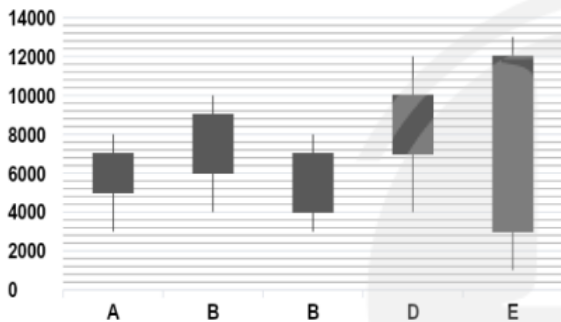
- (A) If the principal is invested at 20% per annum S.I for 3 years and in other case the principal is invested at 10% per annum C.I for 2 years, the difference between interests earned in the two cases is Rs 4,680
(B) When the principal is invested at the rate of 20% per annum C.I, compounded half-yearly, the interest earned in 1 year is 2,520
(C) The ratio of the S.I and C.I earned on the principle if invested at the rate of 25% in both cases for 2 years, is $8 : 9$
(D) Difference between the C.I and S.I earned on the principle if invested at the rate of 20% in both cases for 2 years is Rs 480
(A) A, B
(B) B, C
(C) C, D



- (D) A, B, C, D
 (E) None of these

Directions (61-65) Read the following passage and answer the given questions.

Direction On the lockdown season Planes can be booked from five different airline services A , B , C , D , and E at a cheap rate and booking time starts at 12 noon to 4:00 pm of the same day for local travelling. Fare of every airline is flexible and changes by time, the graph given below shows the fare of airline when booking starts, fare when booking closes, highest and lowest fare between that period of those five planes respectively.



Ceiling of the rectangle shows the closing fare of the airline while the floor of the rectangle shows the opening fare of the airline. Ceiling of the line shows the highest fare of the airline while the floor of the lines shows the lower fare of the airline.

If the price of fare is more than or equal to 6000, then 20% discount is given and when the price of the airline is less than 6000 then 10% discount is given.

- Q61** Anand books his airline from A when its booking starts and books B at the time of return when its fare is highest, then what is the ratio of total amount of fare from A to that from B for Anand?
- (A) 9 : 16 (B) 25 : 36
 (C) 2 : 3 (D) 5 : 7
 (E) 7 : 11

- Q62** If the total amount of fare collected by B when booking is about to close is Rs. 648000 and total amount collected by C when booking just started is Rs. 360000, then what is the ratio of total passengers who booked from B to C ?
- (A) 9 : 16 (B) 25 : 36
 (C) 9 : 10 (D) 5 : 7
 (E) 8 : 5

- Q63** If a group of 20 people book the airline from A when its booking starts, then what is the total amount saved by that group if they booked from C when its booking starts instead of booking their airline from A ?
- (A) 20000 (B) 18000
 (C) 24000 (D) 26000
 (E) 28000

- Q64** If total passenger that booked airline from D when its price is highest is 10 less than the number of passengers that booked airline from same agency when its price is lowest and ratio between total fare amount collected by D when its price are highest to that when lowest is 72 : 117, then how many passengers booked their airline when price is lowest?
- (A) 16 (B) 36
 (C) 23 (D) 13
 (E) 20

- Q65** Airline fare of F when booking starts is the average of the opening and closing fare of E and lowest fares of F is 60% of its fare when booking starts. If the total fare amount collected by F of 16 passengers when its price is lowest is the same as total fare amount collected by F of 10 passengers when its price is highest, then what is the highest fare (without discount) of F ?



- (A) Rs. 6400
 (B) Rs. 11000
 (C) Rs. 12000
 (D) Rs. 9000
 (E) Rs. 8000

Q66 The total distance covered by a man while travelling with three different vehicles is 2000km . The ratio of time taken by travelling by car, bus and train is $2 : 3 : 4$ respectively. What is the distance covered by car? Which of the following options is not sufficient to find the answer?

- (A) Car is travelling at 45km/hr and the bus covers 30% of total distance and the speed of the train is 60km/hr .
 (B) Time taken by bus is 50% more than the time taken by car. Bus covers 30% of the total distance.
 (C) The difference between time taken by bus and train is 5 hours and speed of bus and train are 40km/hr and 60km/hr respectively.
 (D) Speed of the car is 30% less than the speed of the train which covers 35% of the total distance.
 (E) None of the given options is sufficient.

Directions (67-68) Read the following passage and answer the given questions.

Directions: Read the data carefully and answer the following questions.

Three equations I, II and III are given below.

I. $x^2 - 2(P + 1)x + 8P = 0$

II. $y^2 - 4Qy + 12Q = 0$

III. $(P - Q)z^2 - (2R - 1)z + 20 = 0$

Some information is also known:

- R is a prime number.
- $10 > R > P$
- $Q^3 = \sqrt{4096}$
- $2P + Q = 16$

Q67

What is the product of larger roots of equations I, II and III?

- (A) 384 (B) 288
 (C) 192 (D) 576
 (E) 480

Q68 Which of the following statements is true?

- (i) One root of equation I and equation II are equal.
 (ii) When the smaller root of equation III is multiplied with 4 then the resultant becomes 2 more than the larger root of equation I.
 (iii) Difference between the roots of equation II is $(R + 1)$.
 (A) Both (i) and (ii)
 (B) Only (iii)
 (C) Only (i)
 (D) All (i), (ii) and (iii)
 (E) Both (ii) and (iii)

Directions (69-71) Read the following passage and answer the given questions.

Directions: Study the following information carefully and answer the related questions.

Two cylindrical tanks $C1$ and $C2$ closed from both the ends are completely filled with water. Quantity of water in $C1$ is 3.3 liters less than the quantity of water in $C2$. Had the height of $C1$ reduced to its radius, twice its volume (in cm^3) would have been 14 times the sum of area (in cm^2) of its bases. Total cost of painting the outer surface of $C2$ at Rs. p per cm^2 is Rs. 280500. Radius of $C2$ is 1cm more than the radius of C . Height of $C2$ is $2p\text{cm}$. Cost of painting outer curved surface of $C1$ at Rs. $(q - 5)$ per cm^2 is Rs. 165000. (Take $\pi = \frac{22}{7}$)

Q69 If the water from both the cylindrical tanks $C1$ and $C2$ is emptied in a cuboidal tank to fill it completely where the length and the breadth of the cuboidal tank are $2(q - 5)\text{cm}$ and $q\text{cm}$



respectively, then the height (in cm) of the cuboidal tank is

- (A) 63.8 (B) 59.4
(C) 61.2 (D) 67.6
(E) 55.6

Q70 If the height of a conical cistern is half of the height of C_2 and its radius is $2cm$ less than the radius of C_1 , then what is the cost of filling the cistern completely with some quantity of liquid at Rs. 25 per liter?

- (A) Rs. 165
(B) Rs. 143
(C) Rs. 198
(D) Rs. 132
(E) Rs. 176

Q71 Which of the following statements is correct?

I. Ratio of heights of C_1 to C_2 is same as the ratio of radius of C_2 to C_1 .

II. If the height of C_1 is decreased by $\frac{p+5}{2}\%$, then its radius should be increased by $3.5cm$ to remain its curved surface area same.

III. Radius of C_2 is two-fifths of the height of C_1 .

- (A) Only I and II
(B) Only II
(C) Only I and III
(D) All I, II and III
(E) Only II and III

Directions (72-74) Read the following passage and answer the given questions.

Directions: Some volunteers work for an NGO for the welfare of animals. The NGO has a rule that volunteers can only join at the beginning of a month and leave at the end of month.

The below table gives information about the number of volunteers who joined and left the NGO during January-August 2018. In Jan, there

are some volunteers at the beginning before joining.

Month	Volunteers joined	Volunteers left
January	100	55
February	240	120
March	150	70
April		105
May	150	180
June	N	N + 20
July	175	
August	N-50	85

It is also known that:

- (i) The number of volunteers at the end of January and March was in the ratio 7 : 12
(ii) The number of volunteers at the end of April was 25% more than the number of volunteers at the end of February.
(iii) The number of volunteers at the end of July was the average of the number of volunteers at the end of April and May.
(iv) The number of volunteers at the end of August was 250 more than the number of volunteers at the end of January.

Q72 What was the number of volunteers at the beginning of January?

- (A) 285 (B) 280
(C) 235 (D) 230
(E) 215

Q73 What is the value of N ?

- (A) 200
(B) 180
(C) 150
(D) 130
(E) Cannot be determined

Q74 At the end of how many of the given months the change in the number of volunteers from the previous month was less than 50% ?

- (A) 2 (B) 3
(C) 4 (D) 5



(E) 6

Directions (75-76) Read the following passage and answer the given questions.

Directions :Study the following information carefully and answer the related questions.

A shopkeeper bought two items A and B together at Rs. $(11X + 50)$ and Rs. $6(2Y + 5)$ respectively. He marked item A at $(X + 30)\%$ above its cost price and after allowing a discount of Rs. 240, he sold it at $(X - 10)\%$ profit. He marked item B at Rs. $9X$ above its cost price and after allowing a discount of $\left(\frac{Y}{3}\right)\%$, he sold it at 28% profit.

Q75 Instead of a single discount, if two successive discounts of $\left(\frac{Y}{2}\right)\%$ each were given on the marked price of item A, then item A would have been sold at a loss of Rs. ____

- (A) Rs.88.5
- (B) Rs. 70.8
- (C) Rs. 106.2
- (D) Rs.53.1
- (E) Rs. 35.4

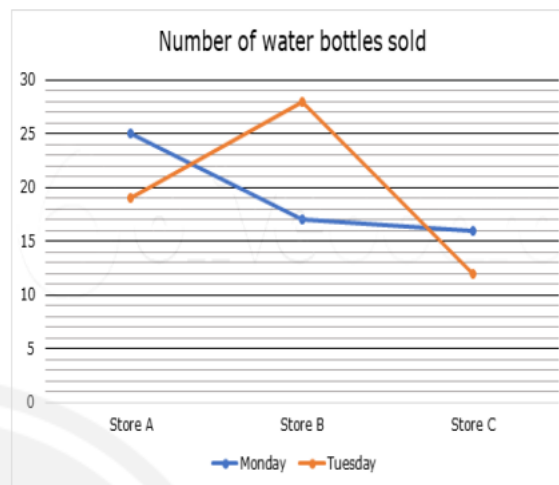
Q76 If the shopkeeper bought a third item C at Rs. Z and then marked it at $X\%$ above its cost price and after allowing a discount of $(Y - 40)\%$, he sold it at Rs. $Z + 80$. Which of the following options is correct?

- (A) $50Y = Z$
- (B) $0.6Z - 4X = 20$
- (C) $6Z = XY$
- (D) $Z = 8X$
- (E) None of these

Directions (77-80) Read the following passage and answer the given questions.

Directions: Study the following information carefully and answer the related questions.

In three different stores, water is sold in different quantity bottles. Following line-graph represents the data regarding the number of water bottles sold from these stores.



- Number of water bottles sold from each store different days belong to one of two different set i.e., set I which contains 500ml, 1 liters and 10 liters water bottles and set II which contains 1.5 liters, 2 liters and 5 liters water bottles.
- Set I will be taken for sale of an even number bottles and set II will be taken for sale of an odd number of bottles.

Note:

Bottle type for set I: minimum quantity (500ml), medium quantity (1 liter) and maximum quantity (10 liters)

Bottle type for set II: minimum quantity (1.5 liters) medium quantity (2 liters) and maximum quantity (5 liter) Following table represents the respective ratio of the number of minimum to maximum quantity water bottle sold.

Store	Number of (minimum: maximum) quantity water bottles sold	
	Monday	Tuesday
A	3 : 1	10 : 3
B	4 : 3	6 : 1
C	6 : 1	1 : 1



- Number of medium quantity bottles sold from store *A* on Monday and Tuesday are in the ratio 3 : 2 respectively.
- Total 20 minimum quantity water bottles are sold from stores *A* and *B* together on Monday.
- 4 liters of water is sold in medium quantity bottles from store *C* on Tuesday.
- Total 50 liters of water sold in maximum quantity bottles from store *C* on Monday and Tuesday together.
- 14 liters of water sold in medium quantity bottles from store *B* on Tuesday.

Q77 From Monday to Wednesday together, 19 bottles of 1.5 liters quantity are sold from store *B*, and a total 15 maximum quantity bottles are sold from store *B* during the same time. If less than 5 medium quantity bottles are sold from store *B* on Wednesday, then how much water is sold from the same store on Wednesday?

- I. 62.5 liters
- II. 53.5 liters
- III. 57.5 liters
- IV. 60.5 liters

- (A) Only II and III
- (B) Only I and III
- (C) Only II and IV
- (D) Only I and IV
- (E) Only I and II

Q78 Total quantity of water sold from store *A* on Monday and Tuesday together is $p\%$ more than the total quantity of water sold from store *B* and *C* together on Monday. What quantity of water (in liters) is sold from store *C* on Tuesday?

- (A) $(p + 6)$
- (B) $(p - 10)$
- (C) $(p - 4)$
- (D) $(p + 8)$

(E) $\frac{3p}{4}$

Q79 If prices of each bottle of 2 liter and 0.5 liter are Rs. 25 and Rs.10 respectively, then what is the difference between earnings on quantity of water sold in 2 liters bottles from all stores together on Monday and earnings on quantity of water sold in 0.5 liters bottles from all stores together on Tuesday?

- (A) Rs. 120
- (B) Rs. 200
- (C) Rs. 180
- (D) Rs. 160
- (E) Rs. 140

Q80 What quantity of water is sold from store *D* on Monday in minimum, medium and maximum quantity bottles?

Statement I: Total 28 water bottles sold from store *C* and *D* on Monday. The respective ratio of the number of minimum and medium quantity bottles sold from store *D* on Monday is 4 : 5.

Statement II: 3 bottles of 10 liters quantity is sold from store *D* on Monday which is 2 less than the number of bottles of 1 liters quantity sold from same store on same day.

Statement III: Total 5 liters water is sold in 1.5 liters bottles from store *C* and *D* on Monday and 30 liters water is sold from store *D* in maximum quantity bottles.

Which of the following statements is redundant to find the answer?

- (A) Either statement I or III alone is redundant.
- (B) Only statements II and III together are redundant.
- (C) Any two statements together are redundant
- (D) Only the statement I alone is redundant.
- (E) Only statements I and III together are redundant.

Directions (81-84) Read the following passage and answer the given questions.



Directions: Study the data carefully and answer the following questions:

In the garments industry, efficiency percentage is the ratio of produced minutes to spent minutes multiplied by 100 .

$$\text{Efficiency \%} = \frac{\text{output} \times \text{operator SMV} \times 100}{\text{Manpower} \times \text{working hours} \times 60}$$

Here,

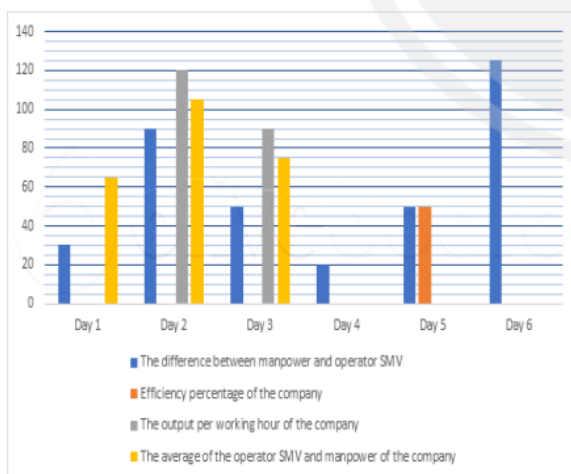
Output = Number of garments pieces produced

Operator SMV (standard minute value) = It means a normal operator can complete a task within the allowed time (hours) when he works at 100% efficiency.

Manpower = Number of the worker (operator) worked

Working hours = Total hours work to produce the garments.

Below bar graph shows the difference between manpower and operator SMV of the company in six days, efficiency percentage of the company in six days, output per working hour of the company in six days, and average of the operator SMV and manpower of the company in six days:



Some information given below:

Some information is missing in the above graph.

Operator SMV of the garment company is more than manpower on only Day 1 for the remaining

5 days it is less than the manpower of the company. Ratio of output on day 4 to that on day 3 is 3 : 4 while working hours on day 3 is 1 hour less than that of day 4 . Average of outputs on day 2,3 , and 4 together is the same as output on day 3 . Working hours on day 1 , and day 5 , are 3 hours, and 4.5 hours, respectively. The output per working hour of the company on day 4 is 54 .

Q81 If the efficiency percentage of the garment company on day 4 is 60%, then how many workers worked on day 4 ?

- (A) 40 (B) 30
(C) 45 (D) 50
(E) 60

Q82 If the number of garments produced on day 1 is 80% less than that of day 2 , then what is the efficiency percentage on day 1 ?

- (A) 120% (B) 80%
(C) 90% (D) 96%
(E) 84%

Q83 If number of workers who worked on day 5 is 20% more than that of on day 2 , and number of garments pieces produced on day 4 is 75% of the number of garments pieces produced on day 5 , then what is the ratio of operator SMV on day 5 to the operator SMV on day 3 ?

- (A) 27 : 20 (B) 28 : 23
(C) 4 : 5 (D) 3 : 4
(E) 7 : 8

Q84 If average working hours of the company in six days is 4 hours, and average of manpower and operator SMV on day 6 is 137.5 , while efficiency percentage of the company on day 6 is 72%, then what is the number of garment pieces produced on day 6?



- (A) 418 (B) 428
(C) 442 (D) 456
(E) 432

Q85 A bag contains some balls of three different colours. Probability of drawing a blue colour ball is $\left(\frac{5}{24}\right)$ and the ratio of red to green colour balls is 9 : 10. What is the total number of balls in the bag?

I. Average of total number of balls of all the three colours is 8 .

II. Two balls are drawn randomly from the bag and probability that both the balls are green is $\frac{15}{92}$.

III. One ball is drawn at random from the bag and the probability that the ball is either blue or red is $\left(\frac{7}{12}\right)$

- (A) Either I alone or III alone is sufficient.
(B) Either I alone or II alone is sufficient.
(C) Either II alone or III alone is sufficient.
(D) Any one of them alone is sufficient.
(E) Any two of them together are sufficient.

Q86 In the following questions, which of the given statement(s) are necessary for determining the answer.

What is the investment made by R if the sum of investments of P , Q and R is Rs.24000?

I. P and Q start a business with Rs. p and Rs. q for 15 months and 18 months respectively. Profit earned by Q and P is in the ratio 18 : 25.

II. R and P are partners in a business. R contributes Rs. r and P contributes Rs. p for 12 months and 15 months respectively. Profit earned by P and R is in the ratio 25 : 16.

III. Q and R enter into a business with Rs. q and Rs. r for 18 months and 12 months respectively. Profit earned by Q and R is in the ratio 9 : 8.

- (A) All statements I, II and III together are sufficient.
(B) Only I and II together are sufficient.
(C) Only II and III together are sufficient.

- (D) Only I and III together are sufficient.
(E) None of these

Q87 Name the autobiography of Former world tennis champion Billie Jean King which was released in 2021?

- (A) Pressure is a Privilege: Lessons I've Learned from Life and the Battle of the Sexes
(B) Tennis Love: A Parents' Guide to the Sport Billie Jean King
(C) All In: An Autobiography
(D) Play Better Tennis
(E) Billie Jean King's Secrets of Winning Tennis

Q88 Under which programme the National Commission for Women (NCW) provides leadership skills to women political leaders?

- (A) She is a Changemaker
(B) Women are better
(C) She is unstoppable
(D) No one can beat her
(E) You are unstoppable

Q89 Which subsidiary of World Bank provide interest-free loans and grants to governments of the poorest countries?

- (A) International Finance Corporation
(B) International Bank for Reconstruction and Development
(C) Multilateral Investment Guarantee Agency
(D) International Development Association
(E) International Centre for Settlement of Investment Disputes

Q90 What is the maximum financial support provided to any specific projects under the Scheme of Fund for Regeneration of Traditional Industries (SFURTI) Scheme?

- (A) 2 Crores (B) 5 Crores
(C) 8 Crores (D) 9 Crores
(E) 10 Crores

Q91 Name the Comet C/2021 A1 that recently made its closest visit to the Earth in December 2021?



- (A) Comet Topaz
(B) Comet Aries
(C) Comet Scorpion
(D) Comet Bloodstone
(E) Comet Leonard
- Q92** Australia has cancelled the deal with which country and entered into the AUKUS partnership to purchase Nuclear Powered Submarines with US and UK?
(A) France (B) Germany
(C) Iran (D) Russia
(E) China
- Q93** Which Schedule related to the powers & functions of States & Union Territories in India?
(A) 1st (B) 2nd
(C) 4th (D) 6th
(E) 7th
- Q94** In 2021 Kantar's Brandz India report 2021, which three brands have been named as the most purposeful brands in India across technology, FMCG, and non-FMCG categories respectively?
(A) Amazon, Tata Tea and Asian Paints
(B) Flipkart, Unilever and Airtel
(C) Myntra, Tata Tea and MRF
(D) Infosys, Tata Tea and Jlo
(E) TCS, Tata Tea and Asian Paints
- Q95** Who won FIDE World Chess Championship 2021?
(A) Garry Kasparov
(B) Fabiano Caruana
(C) Rameshbabu Praggnanandhaa
(D) Vladimir Kramnik
(E) Magnus Carlsen
- Q96** The Ministry of Skill Development and Entrepreneurship (MSDE) has launched Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0 to empower India's youth with employable skills. This scheme was launched in which year?
(A) 2015 (B) 2016
(C) 2017 (D) 2018
(E) 2019
- Q97** Indian Navy has decommissioned INS Khukri after 32 years of service at a solemn ceremony held at Visakhapatnam. It is the first of the indigenously built _____.
(A) corvettes
(B) submarine
(C) torpedo
(D) aircraft carrier
(E) None of the above
- Q98** The government has notified the Production Linked Incentive (PLI) scheme for textiles, specifically aimed at boosting the production of MMF fabric. What does the first 'M' stand for in MMF?
(A) Manufacturing (B) Man
(C) Machine (D) Multilayers
(E) Manoeuvre
- Q99** What is the name of the MSME Public Procurement Policy Monitoring Portal?
(A) MSME Adhikar
(B) MSME Bandhan
(C) MSME Sambandh
(D) MSME Sujahav
(E) MSME Nigrani
- Q100** How many Public Sector Bank branches are there in India as of January 2022?
(A) 81,226 (B) 85,311
(C) 64,342 (D) 78,910
(E) 32,174
- Q101** Where is the RBI Banking Ombudsman Office for Centralized Receipt and Processing Centre (CRPC) located?
(A) New Delhi
(B) Mumbai
(C) Bangalore
(D) Kolkata
(E) Chandigarh



- Q102** Balkrishna Doshi was awarded the annual award of Britain's Royal Gold Medal in 2022. He is associated with which field?
 (A) Journalist
 (B) Architect
 (C) Writer
 (D) Doctor
 (E) Bureaucrat
- Q103** The wholesale Price Index (WPI) reached 14.23% in November 2021, the highest level in the past ____ year.
 (A) 10 (B) 11
 (C) 12 (D) 16
 (E) 14
- Q104** For which novel Damon Galgut was awarded 2021 Booker Prize?
 (A) Shuggie Bain
 (B) The Good Doctor
 (C) Milkman
 (D) Girl, Woman, Other
 (E) The Promise
- Q105** Which organisation has partnered with Invest India to launch 'Startup Innovation Challenge' for developing 5G & IoT solutions?
 (A) Jio (B) Vi
 (C) Nokia (D) Sony
 (E) Airtel
- Q106** In which edition of Miss Universe event held in Eilat, Israel in 2021, India's Harnaz Sandhu crowned as the Miss Universe?
 (A) 56th (B) 67th
 (C) 69th (D) 70th
 (E) 75th
- Q107** Recently, the Reserve Bank of India has increased the Immediate Payment Service (IMPS) transaction limit from Rs 2 lakh to -----
 (A) 3 lakh (B) 4 lakh
 (C) 5 lakh (D) 6 lakh

(E) 8 lakh

- Q108** Who headed the Resolution Framework -2.0 Resolution of Covid related stress of Individual and Small Businesses?
 (A) KV Kamath
 (B) MD Patra
 (C) Chanda Kochar
 (D) Deepak Parikh
 (E) Arundhati Bhattacharya
- Q109** The World Health Organisation assigns Greek letters to Covid-19 variants, what is the Greek numeric value assigned for 'Omicron' variant?
 (A) 12th (B) 13th
 (C) 14th (D) 15th
 (E) 16th
- Q110** Which of the following banks has been merged with Bank of Baroda?
 (A) Allahabad Bank
 (B) Corporation Bank
 (C) United Bank of India
 (D) Vijaya Bank
 (E) None of the above
- Q111** State run State Bank of India held a total what percent of stake in the Jio Payment Bank?
 (A) 20 percent
 (B) 25 percent
 (C) 30 percent
 (D) 35 percent
 (E) 40 percent
- Q112** Consider the following statements with regard to the PM MITRA Scheme:
 1. Tamil Nadu, Telangana, Karnataka, Maharashtra, Gujarat, Madhya Pradesh and Uttar Pradesh have been selected to set up new textile parks under the PM Mega Integrated Textile Regions and Apparel (PM MITRA) scheme.
 2. The parks will be set up by 2026-27.



3. The total outlay for the project is Rs 4,445 crore, though the initial allocation in the 2023-24 Budget is only Rs 200 crore.

Which of the statements given above is/are correct?

- (A) Only 1 and 2
- (B) Only 2 and 3
- (C) Only 1 and 3
- (D) Only 1
- (E) All 1, 2 and 3

Q113 What is India's GDP estimated by the National Statistical Office (NSO) for the second quarter of financial year 2022?

- (A) 6.7 percent
- (B) 7.8 percent
- (C) 8.4 percent
- (D) 8.8 percent
- (E) 9.2 percent

Q114 Consider the following matches of companies with their respective CEOs:

1. IBM – Arvind Krishna
2. Alphabet – Sundar Pichai
3. Microsoft – Satya Nadela
4. Adobe – Shantanu Narayan
5. Micron Technology – Sanjay Malhotra

Which of the above is/are correctly matched?

- (A) Only I, III and IV
- (B) Only I, II, III and IV
- (C) Only I, III and V
- (D) Only I, II, III and IV
- (E) All I, II, III, IV and V

Q115 13th Asia-Europe Meeting (ASEM) summit was held in which city?

- (A) Manila, Philippines
- (B) Jakarta, Indonesia
- (C) Kuala Lumpur, Malaysia
- (D) Phnom Penh, Cambodia
- (E) Tokyo, Japan

Q116 Which of the following regions was categorised as World's Most Unequal region in the 'World

Inequality Report 2022?

- (A) Middle East and North Africa (MENA)
- (B) South Asia
- (C) East Africa
- (D) South America
- (E) West Europe

Q117 As per which Magazine Elon Musk has been chosen as the Person of the Year 2021?

- (A) Forbes
- (B) Time Magazine
- (C) The Observer Magazine
- (D) World Today
- (E) India Today

Q118 The Reserve Bank of India (RBI) introduced a Prompt Corrective Action (PCA) framework for large non-banking financial companies (NBFCs). The Framework will come into effect on ____

- (A) 1st January 2022
- (B) 1st April 2022
- (C) 1st July 2022
- (D) 1st August 2022
- (E) 1st October 2022

Q119 India's First Manned Ocean Mission Samudrayan launched at _____

- (A) Kochi
- (B) Chennai
- (C) Goa
- (D) Vishakhapatnam
- (E) Balasore

Q120 Grofers has rebranded as _____ to indicate its focus on the fast-growing quick commerce space in India?

- (A) Blinkit
- (B) Lenskit
- (C) Gmart
- (D) Grocermart
- (E) None of the above

Q121 What is the fullform of CrPC?



- (A) Consumer Protection Code
- (B) Criminal Procedure Code
- (C) Central Processing Code
- (D) Consumer Product Code
- (E) None of the above

Q122 What is the Foreign Direct Investment (FDI) limit in India in defence sector?

- (A) 49 percent
- (B) 51 percent
- (C) 61 percent
- (D) 74 percent
- (E) 100 percent

Q123 Consider the following statements with respect to PM Awas Yojana:

1. The erstwhile rural housing scheme Indira Awas Yojana (IAY) was restructured to Pradhan Mantri Awas Yojana-Gramin (PMAY-G).
2. Both the component of PM Awas Yojana, the PMAY-G and PMAY-U are being implemented by the Ministry of Housing and Urban Affairs.
3. The cost of unit assistance is shared between Central and State Governments in the ratio 60:40 in plain areas.

Which of the statements given above is/are correct?

- (A) Only I and II
- (B) Only I and III
- (C) Only II and III
- (D) Only I
- (E) All I, II and III

Q124 Consider the following statements with respect to the Pradhan Mantri Kaushal Vikas Yojana (PMKVY):

- I. Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is being run under the Skill India Mission launched by the government in 2015.

II. PMKVY 3.0 envisages training of eight lakh candidates over a scheme period of 2020-2021 with an outlay of Rs. 948.90 crore.

III. Under this Scheme, Training and Assessment fees are completely paid by the Government.

Which of the statements given above is/are correct?

- (A) Only I and II
- (B) Only I and III
- (C) Only II and III
- (D) Only I
- (E) All I, II and III

Q125 Haiderpur Wetland is located in which state that has been added as the 47th Ramsar Site in December 2021?

- (A) Telangana
- (B) Madhya Pradesh
- (C) Uttar Pradesh
- (D) Maharashtra
- (E) Bihar

Q126 Consumer Confidence Survey is being conducted by_____.

- (A) NSO
- (B) NITI Aayog
- (C) SEBI
- (D) IRDAI
- (E) RBI

Directions (127-134) Read the following passage and answer the given questions.

Directions: Read the given passage carefully and answer the questions that follow.

In Nepal, where the majestic Himalayas beckon, a tale unfolds of a nation's aspiration for progress and connectivity, intricately tied to a colossal international airport project. As Nepal embarks on investigating this venture funded and built by Chinese state-owned companies, it unfurls a narrative that extends far beyond the boundaries of Pokhara. At the heart of this



investigation lies the Pokhara airport, a \$216 million endeavour conceived over a decade ago under the auspices of China's financial support.

The airport, envisioned as a gateway to the Himalayas and a catalyst for tourism in the region, has encountered turbulence even before the first regular international flight could grace its runway. The concerns raised are many. These include the project's staggering cost, its questionable quality, and the lingering spectre of debt repayment. It is a poignant reminder of the delicate dance that developing nations engage in when accepting financial lifelines from global powerhouses.

(A) In this intricate waltz, the spotlight shifts to China's Belt and Road Initiative, a colossal campaign disseminating financial support globally, underline a commitment to economic and diplomatic collaboration. Nepal's predicament, however, showcases the potential pitfalls of such partnerships. The investigation into alleged irregularities in the airport project illuminates a broader discourse around the transparency and accountability of international infrastructure investments.

As developing nations grapple with the aftermath of borrowed funds, the Pokhara airport project serves as a stark cautionary tale, urging a reassessment of the dynamics between borrower and lender. **The financial quagmire surrounding the airport's construction raises questions about the wisdom _____.**

While the intention behind the project was undoubtedly noble ~ an attempt to bolster Nepal's economic prospects and create a thriving tourist destination ~ it now stands at the crossroads of financial strain and diplomatic intricacies.

The very essence of the investigation underscores a growing global sentiment ~ one

of wariness and scrutiny concerning the methods and motivations behind China's overseas infrastructure projects. The notion of a 'flagship project' under the Belt and Road Initiative faces scepticism, and the repercussions extend far beyond Nepal's borders. Sri Lanka's handover of a deep-water port and Pakistan's substantial foreign debt to China serve as cautionary tales etched into the narrative of global infrastructure collaboration. It is crucial to recognise that the Pokhara airport is not merely a physical structure. It symbolises the hopes and aspirations of a nation seeking a foothold in the global economy. The investigation's outcome holds the potential to shape diplomatic ties, influence borrowing practices, and perhaps, recalibrate the trajectory of similar projects in the future. **For transparent, mutually beneficial agreements (A)/ that prompts reflection on the symbiotic (B)/ relationship between nations, the delicate balance (C)/ of economic interests, and the imperative need (D)/ Nepal's airport saga serves as a thread (E).**

As the investigation unfolds, the world watches, hopeful that from the shadows of scepticism, a path to responsible and sustainable global infrastructure collaboration emerges ~ a path that honours the aspirations of nations while navigating the complexities of international partnerships.

Q127 The Pokhara airport project in Nepal symbolizes:

- (A) China's dominance in global infrastructure development
- (B) Nepal's aspirations for economic growth and connectivity
- (C) A cautionary tale about international borrowing
- (D) The success of China's Belt and Road Initiative



(E) None of these

Q128 The investigation into the Pokhara airport project sheds light on:

- (A) China's intention to dominate global infrastructure
- (B) Nepal's financial mismanagement
- (C) Global skepticism towards China's overseas investments
- (D) Potential benefits of the Belt and Road Initiative
- (E) None of these

Q129 The author's tone throughout the passage can be described as:

- (A) Critical and condemning towards China's infrastructure initiatives
- (B) Analytical and cautionary regarding international infrastructure collaborations
- (C) Optimistic and celebratory about Nepal's progress in the global economy
- (D) Indifferent and detached from the implications of global infrastructure investments
- (E) None of these

Q130 The most suitable title for the passage would likely be:

- (A) "China's Dominance in Nepal's Infrastructure Projects"
- (B) "The Triumphs and Failures of Global Airport Ventures"
- (C) "Navigating the Challenges of International Infrastructure Collaboration"
- (D) "The Unprecedented Success of the Pokhara Airport Project"
- (E) None of these

Q131 The passage suggests that the Pokhara airport saga emphasizes the need for:

- (A) Immediate termination of international infrastructure collaborations
- (B) Increased reliance on Chinese funding for Nepal's development
- (C) Transparent and mutually beneficial agreements in global projects
- (D) A complete halt to China's Belt and Road Initiative
- (E) None of these

Q132 The sentence at (A) may be erroneous grammatically or contextually. Identify the error in the sentence and choose the respective option. If there is no error, choose option (E).

- (A) In this intricate waltz, the spotlight shifts to China's
- (B) Belt and Road Initiative, a colossal campaign
- (C) disseminating financial support globally, underline
- (D) a commitment to economic and diplomatic collaboration.
- (E) No error

Q133 . The financial quagmire surrounding the airport's construction raises questions about the wisdom

What phrase can be suitable for the given blank?

- (A) of the construction management team
- (B) regarding the project's timeline
- (C) within the aviation industry standards
- (D) towards local community engagement
- (E) of heavy reliance on external financing

Q134 For transparent, mutually beneficial agreements (A)/ that prompts reflection



on the symbiotic (B)/ relationship between nations, the delicate balance (C)/ of economic interests, and the imperative need (D)/ Nepal's airport saga serves as a thread (E)

The statement is broken into 5 parts A,B,C,D, and E and the parts are not arranged in a coherent and grammatically correct manner. Arrange part A/B/C/D/E to form a meaningful sentence which makes sense.

- (A) ACDBE (B) BACDE
(C) DCBEA (D) CDEBA
(E) EBCDA

Q135 Direction: In the following question, three sentences are given, revolving around the same theme or idea. Decide which of the sentences are grammatically and meaningfully correct and mark the answer accordingly.

1. To realize the ambitious goal of becoming a \$5 trillion economy by 2025, it is imperative for India to prioritize initiatives that boost both export demand and domestic production.
2. Strengthening the demand for exports and fostering a conducive environment for increased production are key drivers in propelling India towards achieving its target of becoming a \$5 trillion economy by 2025.
3. Our nation could achieve the target of becoming a \$5 trillion economy by 2025 and to achieve this target India must focus on increasing the demand of exports and production.

- (A) Only 1 (B) Only 1 and 2
(C) Only 2 and 3 (D) Only 1 and 3
(E) All 1, 2 and 3

Q136

Direction: In the following question, three sentences are given, revolving around the same theme or idea. Decide which of the sentences are grammatically and meaningfully correct and mark the answer accordingly.

1. Although the analysis has proven successful, it may not directly apply to analyzing the upcoming projects and balance sheet of the company, as each situation requires a tailored approach and consideration of specific factors.
 2. It have become a successful analysis and will be considered for analyzing the upcoming projects and balance sheet of the company.
 3. While the analysis has achieved success, it should be utilized cautiously when analyzing the upcoming projects and balance sheet of the company, as the dynamics and circumstances may vary, necessitating a fresh evaluation and customized strategies.
- (A) Only 1 (B) Only 1 and 2
(C) Only 2 and 3 (D) Only 1 and 3
(E) All 1, 2 and 3

Q137 Direction: In the following question, three sentences are given, revolving around the same theme or idea. Decide which of the sentences are grammatically and meaningfully correct and mark the answer accordingly.

1. The task of gathering information and data from the annual reports of these companies proves to be difficult for the students.
2. Escaping in the task of collecting information and data from the annual reports of these companies is not possible for the students.



3. Collected the information and data from the annual reports of these companies is an arduous task for the students.

- (A) Only 1 (B) Only 1 and 2
(C) Only 2 and 3 (D) Only 1 and 3
(E) All 1, 2 and 3

Q138 Direction: In the following question, three sentences are given, revolving around the same theme or idea. Decide which of the sentences are grammatically and meaningfully correct and mark the answer accordingly.

1. The divergent paths taken by these two countries during times of crisis highlight the significance of leadership and decision-making in shaping the outcome and perception of the situation.
2. There is always a silver line between the crisis of these two countries' wars as it gets differentiated with the way these countries dealt with it.
3. The differing responses of these two countries in the face of crisis emphasize the crucial role of strategy and resilience in determining the ultimate trajectory and aftermath of such challenging circumstances.

- (A) Only 1
(B) Only 1 and 2
(C) Only 2 and 3
(D) Only 1 and 3
(E) All 1, 2 and 3

Q139 Direction: In the following question, a part of the sentence has been highlighted. You need to identify which of the given options can replace the highlighted part and make the

sentence grammatically and contextually correct. In case the highlighted part is correct, mark (e) as your answer.

Industrial pollution poses a significant threat to the environment and human health, as toxic emissions and pollutants released into the air, water, and **soil contributing to the degradation by ecosystems and increase the risk** of respiratory diseases and other health complications.

- (A) soil contributed to the degradation of ecosystems and increase the risk
(B) soil contribute to the degradation in ecosystems and increasing in risk
(C) soil contribute to the degradation by ecosystems and increased of risk
(D) soil contribute to the degradation of ecosystems and increase the risk
(E) No Improvement required

Q140 Direction: In the following question, a part of the sentence has been highlighted. You need to identify which of the given options can replace the highlighted part and make the sentence grammatically and contextually correct. In case the highlighted part is correct, mark (e) as your answer.

The government's taxation policies aim to strike a balance between promoting economic growth and **ensuring social equity in implement fair and progressive tax** structures that incentivize investment, encourage entrepreneurship, and address income disparities.

- (A) ensuring social equity by implement fair and progressive tax
(B)



ensuring social equity with implementing fair and progressive tax

(C) ensuring social equity by implementing fair and progressive tax

(D) ensuring social equity by implementing fairly and progressively tax

(E) No Improvement required

Q141 Direction: In the following question, a part of the sentence has been highlighted. You need to identify which of the given options can replace the highlighted part and make the sentence grammatically and contextually correct. In case the highlighted part is correct, mark (e) as your answer.

Rising inflation erodes the purchasing power of consumers, leading to higher prices for goods and services, and **create challenging for central banks and policymakers** to maintain price stability and foster sustainable economic growth.

(A) creation of challenges for central banks and policymakers

(B) creating challenges for central banks and policymakers

(C) creating challenges in central banking and policymakers

(D) creating challenging for central banks and policymakers

(E) No Improvement required

Directions (142-146) Read the following passage and answer the given questions.

Directions: Answer the following questions after rearranging the following sentences into a coherent paragraph and identify the sentence that doesn't fit into the context of the paragraph.

(A) Additionally, the government will focus on promoting research and development, providing incentives for technological advancements, and fostering entrepreneurship.

(B) These measures aim to enhance productivity, create job opportunities, and spur innovation-driven growth.

(C) In line with these objectives, the government plans to invest heavily in infrastructure development, particularly in sectors such as transportation, energy, and telecommunications.

(D) This investment is aimed at improving connectivity, reducing logistical bottlenecks, and attracting domestic and foreign investment.

(E) The government's economic policies for the financial year 2023-24 are designed to stimulate economic growth, foster innovation, and address pressing social issues.

(F) In order to attract foreign direct investment and promote international trade, the government will actively pursue trade agreements and establish strategic partnerships with key global economies, expanding market access for domestic industries and fostering export-oriented growth.

(G) To ensure inclusive development, the government will implement targeted social welfare programs, including increased spending on education, healthcare, and poverty alleviation initiatives.

Q142 Considering statement (E) **"The government's economic policies for the**



financial year 2023-24 are designed to stimulate economic growth, foster innovation, and address pressing social issues" as the first sentence of the rearranged paragraph, which among the following fails to become the part of the coherent paragraph?

- (A) A (B) F
(C) G (D) B
(E) D

Q143 Considering statement (E) **"The government's economic policies for the financial year 2023-24 are designed to stimulate economic growth, foster innovation, and address pressing social issues"** as the first sentence of the rearranged paragraph, which one among the following can consecutively follow the last statement after the rearrangement (excluding the incoherent one)?

- (A) These initiatives will not only help mitigate the effects of climate change but also create a green economy that promotes clean and efficient energy sources.
(B) In addition, the government will prioritize the development of smart cities, integrating advanced technologies to enhance urban infrastructure and services.
(C) This digital transformation will improve the quality of life for citizens and attract investments in the rapidly growing technology sector.
(D) Furthermore, the government recognizes the importance of sustainable development and plans

to allocate significant resources towards renewable energy projects and environmental conservation efforts.

- (E) Moreover, the government aims to foster international collaborations and partnerships to facilitate trade, knowledge exchange, and innovation, positioning the country as a global hub for business and research.

Q144 Among the following pairs which one of them is formed with two consecutive statements after the rearrangement?

- (A) A - G (B) B - E
(C) A - F (D) B - G
(E) E - F

Q145 Considering statement (E) **"The government's economic policies for the financial year 2023-24 are designed to stimulate economic growth, foster innovation, and address pressing social issues"** as the first sentence of the rearranged paragraph, identify the correct sequence of the sentences to form a coherent paragraph (excluding the incoherent one).

- (A) ECDAGB (B) ECADGB
(C) ECAGBD (D) ECDGBA
(E) ECDABG

Q146 Considering statement (E) **"The government's economic policies for the financial year 2023-24 are designed to stimulate economic growth, foster innovation, and address pressing social issues"** as the first sentence of the rearranged paragraph, which of the following statement should **FOURTH**



sentence after the rearrangement?
(excluding the incoherent sentence)

- (A) B (B) H
(C) A (D) G
(E) F

Directions (147-156) Read the following passage and answer the given questions.

Directions: Read the following passage and answer the questions following it. Several alphabets are given to help you to assist in answering those questions.

(A) India has **adoption (1)** a remarkable feat through its Jan Dhan-Aadhaar-Mobile (JAM) **trinity (2)**, setting the stage for digital **achieved (3)** across everyday life, across geographies, languages, socio-economic **backgrounds (4)**, and age groups. With government policies facilitating greater digital _____ (B) and RBI steering technology-led innovation into mainstream finance, the digital lending sector has seen exponential growth as banks and NBFCs rapidly transition to digital lending in _____ (C) with fintech entities or on their own. **Worth \$310 billion in 2023 and poised (A)/lending happens through digital means (B)/ estimates point to the digital lending market being (C)/to cross \$1.3 trillion by 2030, as about a third of actual (D).** More **surprisingly**, given the small value and short-term nature of digital lending, it reaches a very high number of consumers. The fintech association's recent data shows that in FY23, its members _____ (D) over 10 crore loans. India faces a unique challenge, with a significant number of citizens being more keypad-literate than language-literate. This rapid **proliferation** also has brought forth a slew of challenges for consumers including unsustainable credit, frauds, spams, and scams that erode consumer trust and raise regulatory

concerns. The digital lending industry is increasingly taking a proactive and transparent stance in addressing these issues, including promptly resolving the consumer _____ (E) in acceptable time. Digital transformative power comes with the responsibility to ensure consumer protection and financial literacy. After all, the fintech community in India did not wait _____ (F).

The digital lending industry must not wait for regulations alone to dictate its behaviour. Instead, it should embrace the principle of "what is good for others is good for me."

Q147 The sentence given in (A) has four words given in bold. Amongst the given bold words which of the following must interchange to make the sentence grammatically and contextually correct and meaningful?

- (A) 1-2 (B) 2-4
(C) 2-3 (D) 1-3
(E) 3-4

Q148 Which of the following words given in the options should come at the place marked as (B) in the above passage to make it grammatically correct and meaningful? Also, the word should fill in the two sentences given below to make them contextually correct and meaningful ?

I. With the company's new interactive website _____ design, _____ user _____ has significantly increased, leading to higher customer satisfaction.



II. Through its educational programs and community outreach efforts, the nonprofit organization aims to foster greater civic _____ among young adults.

- (A) Marketing (B) Transformation
(C) Engagement (D) Ecosystem
(E) Assistance

Q149 Which of the following is the correct word to fill the blank labeled (C)?

- (A) amalgamation (B) allotment
(C) mitigation (D) collaboration
(E) evolution

Q150 Which of the given options is the correct rearrangement of the sentence given in the italics?

- (A) CBAD (B) ABDC
(C) BACD (D) CADB
(E) CBDA

Q151 Which of the following words could be suitable to replace the word '**surprisingly**' as underscore in the paragraph?

- (A) informatively (B) technically
(C) appraisable (D) analytically
(E) importantly

Q152 Which of the following is the correct word to fill the blank labeled (D)?

- (A) funded
(B) disbursed
(C) enrolled
(D) capitalized
(E) channelized

Q153 Which of the following is the synonym of 'proliferation'?

- (A) escalation (B) diminution
(C) attenuation (D) assessment
(E) elaboration

Q154 Which of the following is the correct word to fill the blank labeled (E)?

- (A) acclamation
(B) grievances
(C) applaud
(D) admiration
(E) protection

Q155 Which of the following phrases should fill the blank (F) to make the statement contextually and grammatically meaningful and correct?

- (A) for the consumers to explore their product
(B) for the regulators before they innovated various products
(C) for regulators to launch the innovation in digital lending
(D) for consumers and regulators to adopt digital products
(E) None of these

Q156 Which of the following is the tone of the passage?

- (I) Introspective
(II) Informative
(III) Speculative
(IV) Suggestive

- (A) Only I
(B) Only II
(C) Only III
(D) Both I and II
(E) Both II and IV

Q157 Direction: Match the statements from column 1 with column 2 using the right connectors given below and find which of the following pair or pairs of statements will form contextually correct sentence/s. Choose the correct answer from the given options.



COLUMN 1	COLUMN 2
A. The tennis player showed incredible skill and agility on the court, swiftly returning her opponent's powerful serve with a perfectly timed backhand,	D. the central bank closely monitored the economic indicators to ensure stability in the financial markets.
B. The government implemented various measures to control inflation, such as tightening monetary policy, increasing interest rates, and implementing stricter fiscal policies,	E. her opponent managed to counter with a lightning-fast reflex and won the point.
C. Company law regulates various aspects of business operations, including corporate governance, contracts,	F. and legal compliance, providing a framework for fair and ethical business practices.

1. and
 2. but
 3. due to
 (A) (AF)-due to & (CD)-but
 (B) (BE)-and
 (C) (AE)-due to
 (D) (CD)-but
 (E) (AE)-but & (BD)-and

Q158 Direction: Match the statements from column 1 with column 2 using the right connectors given below and find which of the following pair or pairs of statements will form contextually correct sentence/s. Choose the correct answer from the given options.

COLUMN 1	COLUMN 2
----------	----------

A. The Paris Agreement serves as a vital framework for international cooperation, fostering collaboration	D. urgent action is needed to mitigate these impacts and build resilience.
B. The government's subsidies for renewable energy initiatives have encouraged the	E. adoption of sustainable practices and stimulated investment in clean energy technologies.
C. The consequences of climate change, such as rising sea levels and extreme weather events, pose significant threats to ecosystems and human communities,	F. nations to address the urgent and complex issue of climate change.

1. and
 2. due to
 3. between
 (A) (AF)-between & (CD)-and
 (B) (BE)- due to
 (C) (AE)- and
 (D) (CD)- between
 (E) (BD)- between & (AF)-and

Q159 Direction: Match the statements from column 1 with column 2 using the right connectors given below and find which of the following pair or pairs of statements will form contextually correct sentence/s. Choose the correct answer from the given options.

COLUMN 1	COLUMN 2
A. The athlete's exceptional performance in the championship	D. ongoing efforts are still required to achieve sustainable



brought attention from digital media outlets, resulting in	and pollution-free living environments.
B. The pollution levels in the city have decreased significantly in recent years due to stricter regulations and increased awareness,	E. widespread coverage and increased exposure for their sporting achievements.
C. Effective communication skills in English and content writing are crucial for expressing ideas clearly and persuasively, and	F. they require continuous practice and refinement to master.

1. Though
2. at the same time
3. Yet

- (A) (BF)- yet & (AD)-yet
 (B) (CE)- though
 (C) (BD)- though & (CF)- at the same time
 (D) (BD)-at the same time
 (E) (BD)- and & (AE)-yet

Q160 Direction: Match the statements from column 1 with column 2 using the right connectors given below and find which of the following pair or pairs of statements will form contextually correct sentence/s. Choose the correct answer from the given options.

COLUMN 1	COLUMN 2
A. Effective economic policies aim to strike a balance between stimulating	D. there are still pockets where air quality remains a concern, necessitating

	targeted efforts for improvement.
B. The pollution in the area has significantly decreased in recent years due to environmental regulations and community initiatives,	E. they prioritize incentivizing businesses, promoting innovation, and reducing bureaucratic hurdles to foster a favorable economic environment.
C. The economic policies implemented by the government have led to increased investment and job creation,	F. economic growth, addressing social welfare needs, and ensuring long-term sustainability.

1. Though
 2. Because
 3. As soon as
- (A) (AD)- As soon as
 (B) (BD)-though & (CF)-because
 (C) (BD)-as soon as
 (D) (CF)-because
 (E) (BD)-though & (CE)-because

Q161 Directions: In the following questions, a sentence is divided into four parts, one part of the sentence contains error, you have to mark that part of the sentence which contains error. If the sentence is correct and does not have any error then mark (e) as your option.

- Q14. His friend escape (A)/ in the school (B)/to complete a task (C)/given by the teacher. (D)/No error (E).
 (A) A (B) B
 (C) C (D) D
 (E) No error



Answer Key

Q1 (C)
Q2 (A)
Q3 (D)
Q4 (A)
Q5 (B)
Q6 (C)
Q7 (D)
Q8 (A)
Q9 (B)
Q10 (C)
Q11 (A)
Q12 (A)
Q13 (B)
Q14 (A)
Q15 (B)
Q16 (E)
Q17 (A)
Q18 (C)
Q19 (A)
Q20 (C)
Q21 (B)
Q22 (E)
Q23 (B)
Q24 (E)
Q25 (C)
Q26 (B)
Q27 (E)
Q28 (C)
Q29 (B)

Q30 (E)
Q31 (C)
Q32 (B)
Q33 (C)
Q34 (A)
Q35 (D)
Q36 (D)
Q37 (C)
Q38 (C)
Q39 (B)
Q40 (A)
Q41 (E)
Q42 (C)
Q43 (D)
Q44 (A)
Q45 (B)
Q46 (D)
Q47 (C)
Q48 (D)
Q49 (B)
Q50 (A)
Q51 (D)
Q52 (C)
Q53 (C)
Q54 (C)
Q55 (B)
Q56 (D)
Q57 (B)
Q58 (A)



Q59 (D)
Q60 (D)
Q61 (A)
Q62 (C)
Q63 (B)
Q64 (D)
Q65 (D)
Q66 (B)
Q67 (A)
Q68 (E)
Q69 (A)
Q70 (D)
Q71 (A)
Q72 (C)
Q73 (B)
Q74 (E)
Q75 (B)
Q76 (D)
Q77 (A)
Q78 (A)
Q79 (E)
Q80 (B)
Q81 (E)
Q82 (A)
Q83 (A)
Q84 (E)
Q85 (B)
Q86 (E)
Q87 (C)
Q88 (A)

Q89 (D)
Q90 (C)
Q91 (E)
Q92 (A)
Q93 (E)
Q94 (A)
Q95 (E)
Q96 (A)
Q97 (A)
Q98 (B)
Q99 (C)
Q100 (B)
Q101 (E)
Q102 (B)
Q103 (C)
Q104 (E)
Q105 (E)
Q106 (D)
Q107 (C)
Q108 (A)
Q109 (D)
Q110 (D)
Q111 (C)
Q112 (E)
Q113 (C)
Q114 (E)
Q115 (D)
Q116 (A)
Q117 (B)
Q118 (E)



Q119 (B)
Q120 (A)
Q121 (B)
Q122 (D)
Q123 (B)
Q124 (E)
Q125 (C)
Q126 (E)
Q127 (B)
Q128 (C)
Q129 (B)
Q130 (C)
Q131 (C)
Q132 (C)
Q133 (E)
Q134 (E)
Q135 (B)
Q136 (D)
Q137 (A)
Q138 (D)
Q139 (D)
Q140 (C)

Q141 (B)
Q142 (B)
Q143 (D)
Q144 (D)
Q145 (E)
Q146 (C)
Q147 (D)
Q148 (C)
Q149 (D)
Q150 (D)
Q151 (E)
Q152 (B)
Q153 (A)
Q154 (B)
Q155 (B)
Q156 (E)
Q157 (E)
Q158 (A)
Q159 (C)
Q160 (E)
Q161 (B)



Hints & Solutions

Q1. Text Solution:

Detailed Solution:-

From:- N gives the exam of Arts but not on Tuesday and Friday. Only three days are between the person who gives the Sociology exam and the person who gives the Arts exam. N gives exam after the one who gives Sociology.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			
Wednesday			
Thursday	N	Arts	
Friday			
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday			
Thursday			
Friday			
Saturday	N	Arts	

From:- Only one person gives the exam between the person who gives Chemistry and Psychology exams. More than three people and at least one person give the exams before the Psychology exam.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			

Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday			
Friday		Psychology	
Saturday	N	Arts	

From:- Person who gives Psychology exam got rank I. S gives the Statistics exam but four days after the person who gets VII.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday			VII
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	



Friday		Psychology	I
Saturday	N	Arts	

From:- Geography exam is given immediately after Q who does not get an even numbered rank. A neither gives exam on Wednesday nor gets rank I and II. A neither gives exam immediately before S nor adjacent to Q. Q does not give the exam on Monday.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday		Geography	
Tuesday	A	Economics	VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday	Q		VII
Monday		Geography	
Tuesday	A	Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- M neither gives Chemistry and Psychology exams nor gets rank I and IV. F gives the exam immediately before the person who gets an odd-numbered rank in the exam and immediately after the person who gets rank II. S gets neither IV nor VI rank. D gets rank III but does not give the Economics exam.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday	M	Geography	
Tuesday	A	Economics	VII

Wednesday	D	Chemistry	III
Thursday	N	Arts	II
Friday	F	Psychology	I
Saturday	S	Statistics	V

Case-2

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	
Tuesday	A	Sociology	
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

From:- Geography exam is given immediately after Q who does not get an even-numbered rank. That means case-1 gets eliminated.

M neither gives Chemistry and Psychology exams nor gets rank I and IV.

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	VI
Tuesday	A	Sociology	IV
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

Hence this is the final arrangement.

Q2. Text Solution:

Detailed Solution:-

From:- N gives the exam of Arts but not on Tuesday and Friday. Only three days are between the person who gives the Sociology exam and the person who gives the Arts exam. N gives exam after the one who gives Sociology.

Case-1

Days	Person	Subject	Rank
------	--------	---------	------



Sunday		Sociology	
Monday			
Tuesday			
Wednesday			
Thursday	N	Arts	
Friday			
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday			
Thursday			
Friday			
Saturday	N	Arts	

From- Only one person gives the exam between the person who gives Chemistry and Psychology exams. More than three people and at least one person give the exams before the Psychology exam.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	

Thursday			
Friday		Psychology	
Saturday	N	Arts	

From:- Person who gives Psychology exam got rank I. S gives the Statistics exam but four days after the person who gets VII.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday			VII
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- Geography exam is given immediately after Q who does not get an even numbered rank. A neither gives exam on Wednesday nor gets rank I and II. A neither gives exam immediately before S nor adjacent to Q. Q does not give the exam on Monday.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday		Geography	
Tuesday	A	Economics	VII
Wednesday		Chemistry	



Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday	Q		VII
Monday		Geography	
Tuesday	A	Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- M neither gives Chemistry and Psychology exams nor gets rank I and IV. F gives the exam immediately before the person who gets an odd-numbered rank in the exam and immediately after the person who gets rank II. S gets neither IV nor VI rank. D gets rank III but does not give the Economics exam.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday	M	Geography	
Tuesday	A	Economics	VII
Wednesday	D	Chemistry	III
Thursday	N	Arts	II
Friday	F	Psychology	I
Saturday	S	Statistics	V

Case-2

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	
Tuesday	A	Sociology	
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I

Saturday	N	Arts	V
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From:- Geography exam is given immediately after Q who does not get an even-numbered rank. That means case-1 gets eliminated.

M neither gives Chemistry and Psychology exams nor gets rank I and IV.

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	VI
Tuesday	A	Sociology	IV
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

Hence this is the final arrangement.

Q3. Text Solution:

Detailed Solution:-

From:- N gives the exam of Arts but not on Tuesday and Friday. Only three days are between the person who gives the Sociology exam and the person who gives the Arts exam. N gives exam after the one who gives Sociology.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			
Wednesday			
Thursday	N	Arts	
Friday			
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	



Wednesday			
Thursday			
Friday			
Saturday	N	Arts	

From- Only one person gives the exam between the person who gives Chemistry and Psychology exams. More than three people and at least one person give the exams before the Psychology exam.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday			
Friday		Psychology	
Saturday	N	Arts	

From:- Person who gives Psychology exam got rank I. S gives the Statistics exam but four days after the person who gets VII.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			VII
Wednesday		Chemistry	

Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday			VII
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- Geography exam is given immediately after Q who does not get an even numbered rank. A neither gives exam on Wednesday nor gets rank I and II. A neither gives exam immediately before S nor adjacent to Q. Q does not give the exam on Monday.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday		Geography	
Tuesday	A	Economics	VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday	Q		VII
Monday		Geography	
Tuesday	A	Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	



From:- M neither gives Chemistry and Psychology exams nor gets rank I and IV. F gives the exam immediately before the person who gets an odd-numbered rank in the exam and immediately after the person who gets rank II. S gets neither IV nor VI rank. D gets rank III but does not give the Economics exam.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday	M	Geography	
Tuesday	A	Economics	VII
Wednesday	D	Chemistry	III
Thursday	N	Arts	II
Friday	F	Psychology	I
Saturday	S	Statistics	V

Case-2

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	
Tuesday	A	Sociology	
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

From:- Geography exam is given immediately after Q who does not get an even-numbered rank. That means case-1 gets eliminated. M neither gives Chemistry and Psychology exams nor gets rank I and IV.

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	VI
Tuesday	A	Sociology	IV
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I

Saturday	N	Arts	V
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Hence this is the final arrangement.

Q4. Text Solution:

Detailed Solution:-

From:- N gives the exam of Arts but not on Tuesday and Friday. Only three days are between the person who gives the Sociology exam and the person who gives the Arts exam. N gives exam after the one who gives Sociology.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			
Wednesday			
Thursday	N	Arts	
Friday			
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday			
Thursday			
Friday			
Saturday	N	Arts	

From- Only one person gives the exam between the person who gives Chemistry and Psychology exams. More than three people and at least one person give the exams before the Psychology exam.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			



Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday			
Friday		Psychology	
Saturday	N	Arts	

From:- Person who gives Psychology exam got rank I. S gives the Statistics exam but four days after the person who gets VII.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday			VII
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- Geography exam is given immediately after Q who does not get an even numbered rank. A neither gives exam on Wednesday nor gets rank I and II. A neither gives exam immediately before S nor adjacent to Q. Q does not give the exam on Monday.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday		Geography	
Tuesday	A	Economics	VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday	Q		VII
Monday		Geography	
Tuesday	A	Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- M neither gives Chemistry and Psychology exams nor gets rank I and IV. F gives the exam immediately before the person who gets an odd-numbered rank in the exam and immediately after the person who gets rank II. S gets neither IV nor VI rank. D gets rank III but does not give the Economics exam.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday	M	Geography	
Tuesday	A	Economics	VII
Wednesday	D	Chemistry	III
Thursday	N	Arts	II



Friday	F	Psychology	I
Saturday	S	Statistics	V

Case-2

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	
Tuesday	A	Sociology	
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

From:- Geography exam is given immediately after Q who does not get an even-numbered rank. That means case-1 gets eliminated. M neither gives Chemistry and Psychology exams nor gets rank I and IV.

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	VI
Tuesday	A	Sociology	IV
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

Hence this is the final arrangement.

Q5. Text Solution:

Detailed Solution:-

From:- N gives the exam of Arts but not on Tuesday and Friday. Only three days are between the person who gives the Sociology exam and the person who gives the Arts exam. N gives exam after the one who gives Sociology.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			

Tuesday			
Wednesday			
Thursday	N	Arts	
Friday			
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday			
Thursday			
Friday			
Saturday	N	Arts	

From- Only one person gives the exam between the person who gives Chemistry and Psychology exams. More than three people and at least one person give the exams before the Psychology exam.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	
Saturday			

Case-2

Days	Person	Subject	Rank
Sunday			
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday			
Friday		Psychology	



Saturday	N	Arts	
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From:- Person who gives Psychology exam got rank I. S gives the Statistics exam but four days after the person who gets VII.

Case-1

Days	Person	Subject	Rank
Sunday		Sociology	
Monday			
Tuesday			VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I
Saturday	S	Statistics	

Case-2

Days	Person	Subject	Rank
Sunday			VII
Monday			
Tuesday		Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- Geography exam is given immediately after Q who does not get an even numbered rank. A neither gives exam on Wednesday nor gets rank I and II. A neither gives exam immediately before S nor adjacent to Q. Q does not give the exam on Monday.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday		Geography	
Tuesday	A	Economics	VII
Wednesday		Chemistry	
Thursday	N	Arts	
Friday		Psychology	I

Saturday	S	Statistics	
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Case-2

Days	Person	Subject	Rank
Sunday	Q		VII
Monday		Geography	
Tuesday	A	Sociology	
Wednesday		Chemistry	
Thursday	S	Statistics	
Friday		Psychology	I
Saturday	N	Arts	

From:- M neither gives Chemistry and Psychology exams nor gets rank I and IV. F gives the exam immediately before the person who gets an odd-numbered rank in the exam and immediately after the person who gets rank II. S gets neither IV nor VI rank. D gets rank III but does not give the Economics exam.

Case-1

Days	Person	Subject	Rank
Sunday	Q	Sociology	
Monday	M	Geography	
Tuesday	A	Economics	VII
Wednesday	D	Chemistry	III
Thursday	N	Arts	II
Friday	F	Psychology	I
Saturday	S	Statistics	V

Case-2

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	
Tuesday	A	Sociology	
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V



From:- Geography exam is given immediately after Q who does not get an even-numbered rank. That means case-1 gets eliminated. M neither gives Chemistry and Psychology exams nor gets rank I and IV.

Days	Person	Subject	Rank
Sunday	Q	Economics	VII
Monday	M	Geography	VI
Tuesday	A	Sociology	IV
Wednesday	D	Chemistry	III
Thursday	S	Statistics	II
Friday	F	Psychology	I
Saturday	N	Arts	V

Hence this is the final arrangement.

Q6. Text Solution:

Detailed Solution:-

From:- The first 15 consecutive odd numbers are written from top to bottom such that the letters of the word LEAF are arranged in alphabetical order corresponding to the numbers which are consecutive multiples of 3 (starting from 3).

Number	Letter (Case-1)	Letter (Case-2)
1		
3	A	A
5		
7		
9	E	E
11		
13		
15	F	F
17		
19		
21	L	L
23		
25		
27		
29		

From:- Only two letters were placed between S and U. The odd number placed above S was same as the odd number below U. U was placed corresponding to the prime number.

Number	Letter (Case-1)	Letter (Case-2)
1		
3	A	A
5		
7		
9	E	E
11	S	U
13		
15	F	F
17	U	S
19		
21	L	L
23		
25		
27		
29		

From:- O was placed corresponding to the number which was multiple of five. No two vowels are placed adjacent to each other. That means case-2 gets eliminated.

Y was placed below J. Y was placed corresponding to the prime number.

Number	Letter
1	
3	A
5	
7	
9	E
11	S
13	
15	F
17	U



19	
21	L
23	
25	O
27	J
29	Y

Hence, this is the final arrangement.

Q7. Text Solution:

Detailed Solution:-

From:- The first 15 consecutive odd numbers are written from top to bottom such that the letters of the word LEAF are arranged in alphabetical order corresponding to the numbers which are consecutive multiples of 3 (starting from 3).

Number	Letter (Case-1)	Letter (Case-2)
1		
3	A	A
5		
7		
9	E	E
11		
13		
15	F	F
17		
19		
21	L	L
23		
25		
27		
29		

From:- Only two letters were placed between S and U. The odd number placed above S was the same as the odd number below U. U was placed corresponding to the prime number.

Number	Letter (Case-1)	Letter (Case-2)
1		

3	A	A
5		
7		
9	E	E
11	S	U
13		
15	F	F
17	U	S
19		
21	L	L
23		
25		
27		
29		

From:- O was placed corresponding to the number which was multiple of five. No two vowels are placed adjacent to each other. That means case-2 gets eliminated.

Y was placed below J. Y was placed corresponding to the prime number.

Number	Letter
1	
3	A
5	
7	
9	E
11	S
13	
15	F
17	U
19	
21	L
23	
25	O
27	J
29	Y

Hence, this is the final arrangement.



Q8. Text Solution:

Detailed Solution:-

From:- The first 15 consecutive odd numbers are written from top to bottom such that the letters of the word LEAF are arranged in alphabetical order corresponding to the numbers which are consecutive multiples of 3 (starting from 3).

Number	Letter (Case-1)	Letter (Case-2)
1		
3	A	A
5		
7		
9	E	E
11		
13		
15	F	F
17		
19		
21	L	L
23		
25		
27		
29		

From:- Only two letters were placed between S and U. The odd number placed above S was the same as the odd number below U. U was placed corresponding to the prime number.

Number	Letter (Case-1)	Letter (Case-2)
1		
3	A	A
5		
7		
9	E	E
11	S	U
13		

15	F	F
17	U	S
19		
21	L	L
23		
25		
27		
29		

From:- O was placed corresponding to the number which was multiple of five. No two vowels are placed adjacent to each other. That means case-2 gets eliminated.

Y was placed below J. Y was placed corresponding to the prime number.

Number	Letter
1	
3	A
5	
7	
9	E
11	S
13	
15	F
17	U
19	
21	L
23	
25	O
27	J
29	Y

Hence this is the final arrangement.

Q9 Text Solution:

Detailed Solution:-

Change in the word:-



Step 1:- Consonant are changed in immediately succeeding letter and there are no change in the vowels

Consonant+1

Step 2:- Vowels are changed in immediately succeeding letter and there are no change in the Consonant

Vowel+1

Step 3:- Letters which are repeating more than once, are removed from the word. If there are no letters repeated we put them as it is.

Step 4:- Every third letter of the every word are changed immediately preceding letter from left end.

Step 5:- Every second letter of the every word are replaced with the second succeeding letter from left end.

Input:- **qveek wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqcai ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpq

Step III: rwl xvbch nqfbj ysftd pql

Step IV: rwk **xvach nqebj** ysetd pqk

Step V: ryk xxach nsebj yuetd psk

Q10 Text Solution:

Detailed Solution:-

Change in the word:-

Step 1:- Consonant are changed in immediately succeeding letter and there are no change in the vowels

Consonant+1

Step 2:- Vowels are changed in immediately succeeding letter and there are no change in the Consonant

Vowel+1

Step 3:- Letters which are repeating more than once, are removed from the word. If there are no letters repeated we put them as it is.

Step 4:- Every third letter of the every word are changed immediately preceding letter from left end.

Step 5:- Every second letter of the every word are replaced with the second succeeding letter from left end.

Input:- **qveek wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqcai ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpq

Step III: rwl xvbch nqfbj ysftd pql

Step IV: rwk **xvach nqebj** ysetd pqk

Step V: ryk xwach nrebj yuetd prk

Q11 Text Solution:

Detailed Solution:-

Change in the word:-

Step 1:- Consonant are changed in immediately succeeding letter and there are no change in the vowels

Consonant+1

Step 2:- Vowels are changed in immediately succeeding letter and there are no change in the Consonant

Vowel+1

Step 3:- Letters which are repeating more than once, are removed from the word. If there are no letters repeated we put them as it is.

Step 4:- Every third letter of the every word are changed immediately preceding letter from left end.

Step 5:- Every second letter of the every word are replaced with the second succeeding letter from left end.

Input:- **qveek wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqcai ysetd iioql

Step II: rwffl xvbch nqfbj ysftd jjpq

Step III: rwl xvbch nqfbj ysftd pql

Step IV: rwk **xvach nqebj** ysetd pqk

Step V: ryk xwach nrebj yuetd prk

Q12 Text Solution:

Detailed Solution:-

Change in the word:-

Step 1:- Consonant are changed in immediately succeeding letter and there are no change in the vowels



Consonant+1

Step 2:- Vowels are changed in immediately succeeding letter and there are no change in the Consonant

Vowel+1

Step 3:- Letters which are repeating more than once, are removed from the word. If there are no letters repeated we put them as it is.

Step 4:- Every third letter of the every word are changed immediately preceding letter from left end.

Step 5:- Every second letter of the every word are replaced with the second succeeding letter from left end.

Input:- **qveek wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqei ysetd iioql

Step II: rwfl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj ysftd pql

Step IV: rwk **xvach nqebj** ysetd pqk

Step V: ryk xwach nrebj yuetd prk

Q13 Text Solution:

Detailed Solution:-

Change in the word:-

Step 1:- Consonant are changed in immediately succeeding letter and there are no change in the vowels

Consonant+1

Step 2:- Vowels are changed in immediately succeeding letter and there are no change in the Consonant

Vowel+1

Step 3:- Letters which are repeating more than once, are removed from the word. If there are no letters repeated we put them as it is.

Step 4:- Every third letter of the every word are changed immediately preceding letter from left end.

Step 5:- Every second letter of the every word are replaced with the second succeeding letter from left end.

Input:- **qveek wuzbg mpdah xresc hiopk**

Step I: rweel xuach nqei ysetd iioql

Step II: rwfl xvbch nqfbj ysftd jjpql

Step III: rwl xvbch nqfbj ysftd pql

Step IV: rwk **xvach nqebj** ysetd pqk

Step V: ryk xwach nrebj yuetd prk

Q14 Text Solution:

Solution:-

Today's students are much less capable than students a decade ago

Q15 Text Solution:

Solution:-

It is possible that tobacco users will switch to cigarettes if cigarette prices decrease

This is the exact assumption for the given statement.

Q16 Text Solution:

Solution:-

Arguments:- I:

As this contention focuses out the negatives impacts of garbage nourishment on students, this is often a strong contention.

Arguments:- II:

Usually a frail contention. Fair for the reason students like it, it cannot be proceeded.

Arguments:- III:

This contention makes a solid sense that garbage nourishment does not have great wholesome values so that it can be prohibited.

Q17 Text Solution:

Solution:-

The argument I make is why male Amazon white bellbirds have the loudest calls recorded. The bellbird's call can reach 199 decibels, seven decibels louder than the loudest recorded call of the screaming piha, which held the previous record for the world's loudest bird. Argument 2 is about a female bird. So only argument I is strong.

Q18 Text Solution:



Solution:-

Course of Action options 2 and 3 are feasible and effective in solving the problem.

Q19 Text Solution:

Hence, cigarette smoking releases much more toxic vapors than the vapors releases from cars which poses serious health issues.

Q20 Text Solution:

Solution:-

Sentence 1 talks about the causes of water pollution and sentence 2 talks about the causes of water shortage. Therefore, these two statements are independent causes.

Q21 Text Solution:

It is apparent that due to the cause in statement 2, the impact in statement 1 happens.

Q22 Text Solution:

Detailed Solution:-

From:- Statement 1: V joins immediately after Z. Only two persons Join between Z and U.

Days	Person(Case-1)	Person(Case-2)	Person(Case-3)
Monday	Z		
Tuesday	V	Z	
Wednesday		V	Z
Thursday	U		V
Friday		U	
Saturday			U

From statement 1; we cannot tell who join the meeting on tuesday.

From:- Statement 2: X Joins two days before Z who joins after U. Y joins immediately before U.

Days	Person(Case-1)	Person(Case-2)	Person(Case-3)
Monday	Y		Y
Tuesday	U	Y	U
Wednesday	X	U	
Thursday		X	X
Friday	Z		
Saturday		Z	Z

From Statement 2 we cannot tell who joins the meeting on tuesday.

Now We are taking both the statements together

From:-

Statement 1: V joins immediately after Z. Only two persons Join between Z and U.

Statement 2: X Joins two days before Z who joins after U. Y joins immediately before U.

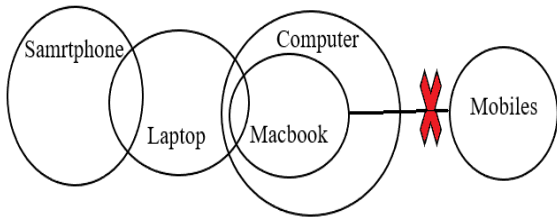
Days	Person
Monday	Y
Tuesday	U
Wednesday	X
Thursday	W
Friday	Z
Saturday	V

Hence If the data given in both statement I and statement II together are sufficient to answer the question.

Q23 Text Solution:

Detailed Solution:-



**Q24. Text Solution:**

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q25. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q26. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn

Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q27. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q28. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q29. Text Solution:

Detailed Solution:-



Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q30. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q31. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q32. Text Solution:

Detailed Solution:-

Word	Code
Plunged	mn
Lodged	tp
Fraught	gm
Fissures	rk
Grudges	st
Skirmish	pz
Travesty	**
Dallied	qv
Solicitor	xu
Rigorous	be

Q33 Text Solution:

Detailed Solution:-

From:-

- E was not born in the month having an odd number of days.
- P was born in July but not in the same month as Q and H.
- P was not born adjacent to the person who was born in September.
- E was not born in the last.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E			
June			E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age
-------	----------------	-----



May		
May		
June		
June		
July	P	
July		
September	E	
September		

From:-

- Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. That means the age of Q is 16 and the age the person who was born in the same month as N is 15 also there is another case that is case-3a
- Q was not born after July.
- P was born in July but not in the same month as Q and H.
- Persons who were born in may having odd numbered ages.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E		Q	16
June	Q	16	E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age	Person(Case-3a)	Age
May				

May				
June	Q	16		
June			Q	16
July	P		P	
July				
September	E		E	
September				

From:-

- G's age was multiple of 5 but not more than 14 that means G's age is 10
- Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. That means the sum of the ages of E and G is 19. Now E's age is 9
- Difference between the age of E and Q was 3 less than the difference between the age of P and G. that means The age of P is 20
- E's age was not even numbered.
- Person whose age is 9 years was not born in September that means case-3 and case-3a gets eliminated.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September				
September				

From:-

- P was older than H and his age is not 17.
- H was not born in the same month as E was born.



- H was not born in May and he was not the born three persons after P
- P was born in July but not in the same month as Q and H.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September	H		H	
September				

From:-

- G neither born with P nor born in May.
- There was one person between G and the person whose age is multiple of 7.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July		14		14
September	H		H	
September	G	10	G	10

From:-

- Age of both the persons born in may is more than 33 years.
- F's age was five more than E's age and they were not born in the same month.
- S was not born in the month having an even number of days.

- E's age was 6 less than the person who was born immediately before E. that means case-2 gets eliminated
- Difference between the age of G and R was 7 less than the age of Q.
- H's age is 7 less than the age of P. R was not born after S.

Month	Person	Age
May	R	19
May	S	15
June	E	9
June	Q	16
July	P	20
July	F	14
September	H	13
September	G	10

Hence this is the final arrangement.

Q34 Text Solution:

Detailed Solution:-

From:-

- E was not born in the month having an odd number of days.
- P was born in July but not in the same month as Q and H.
- P was not born adjacent to the person who was born in September.
- E was not born in the last.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E			
June			E	
July	P		P	



July				
September				
September				

Month	Person(Case-3)	Age
May		
May		
June		
June		
July	P	
July		
September	E	
September		

From:-

- Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. That means the age of Q is 16 and the age the person who was born in the same month as N is 15 also there is another case that is case-3a
- Q was not born after July.
- P was born in July but not in the same month as Q and H.
- Persons who were born in may having odd numbered ages.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E		Q	16
June	Q	16	E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age	Person(Case-3a)	Age
May				
May				
June	Q	16		
June			Q	16
July	P		P	
July				
September	E		E	
September				

From:-

- G's age was multiple of 5 but not more than 14 that means G's age is 10
- Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. That means the sum of the ages of E and G is 19. Now E's age is 9
- Difference between the age of E and Q was 3 less than the difference between the age of P and G. that means The age of P is 20
- E's age was not even numbered.
- Person whose age is 9 years was not born in September that means case-3 and case-3a gets eliminated.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September				



September				
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From:-

- P was older than H and his age is not 17.
- H was not born in the same month as E was born.
- H was not born in May and he was not the born three persons after P
- P was born in July but not in the same month as Q and H.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September	H		H	
September				

From:-

- G neither born with P nor born in May.
- There was one person between G and the person whose age is multiple of 7.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July		14		14
September	H		H	
September	G	10	G	10

From:-

- Age of both the persons born in may is more than 33 years.
- F's age was five more than E's age and they were not born in the same month.
- S was not born in the month having an even number of days.
- E's age was 6 less than the person who was born immediately before E. that means case-2 gets eliminated
- Difference between the age of G and R was 7 less than the age of Q.
- H's age is 7 less than the age of P. R was not born after S.

Month	Person	Age
May	R	19
May	S	15
June	E	9
June	Q	16
July	P	20
July	F	14
September	H	13
September	G	10

Hence this is the final arrangement.

Q35 Text Solution:

Detailed Solution:-

From:-

- E was not born in the month having an odd number of days.
- P was born in July but not in the same month as Q and H.
- P was not born adjacent to the person who was born in September.
- E was not born in the last.

Month	Person(Case-1)	Age	Person(Case-2)	Age
-------	----------------	-----	----------------	-----



May				
May				
June	E			
June			E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age
May		
May		
May		
June		
June		
June		
July	P	
July		
September	E	
September		

From:-

- Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. That means the age of Q is 16 and the age the person who was born in the same month as N is 15 also there is another case that is case-3a
- Q was not born after July.
- P was born in July but not in the same month as Q and H.
- Persons who were born in may having odd numbered ages.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E		Q	16

June	Q	16	E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age	Person(Case-3a)	Age
May				
May				
June	Q	16		
June			Q	16
July	P		P	
July				
September	E		E	
September				

From:-

- G's age was multiple of 5 but not more than 14 that means G's age is 10
- Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. That means the sum of the ages of E and G is 19. Now E's age is 9
- Difference between the age of E and Q was 3 less than the difference between the age of P and G. that means The age of P is 20
- E's age was not even numbered.
- Person whose age is 9 years was not born in September that means case-3 and case-3a gets eliminated.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				



June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September				
September				

From:-

- P was older than H and his age is not 17.
- H was not born in the same month as E was born.
- H was not born in May and he was not the born three persons after P
- P was born in July but not in the same month as Q and H.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September	H		H	
September				

From:-

- G neither born with P nor born in May.
- There was one person between G and the person whose age is multiple of 7.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20

July		14		14
September	H		H	
September	G	10	G	10

From:-

- Age of both the persons born in may is more than 33 years.
- F's age was five more than E's age and they were not born in the same month.
- S was not born in the month having an even number of days.
- E's age was 6 less than the person who was born immediately before E. that means case-2 gets eliminated
- Difference between the age of G and R was 7 less than the age of Q.
- H's age is 7 less than the age of P. R was not born after S.

Month	Person	Age
May	R	19
May	S	15
June	E	9
June	Q	16
July	P	20
July	F	14
September	H	13
September	G	10

Hence this is the final arrangement.

Q36 Text Solution:

Detailed Solution:-

From:-

- E was not born in the month having an odd number of days.
- P was born in July but not in the same month as Q and H.
- P was not born adjacent to the person who was born in September.



- E was not born in the last.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E			
June			E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age
May		
May		
June		
June		
July	P	
July		
September	E	
September		

From:-

- Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. That means the age of Q is 16 and the age the person who was born in the same month as N is 15 also there is another case that is case-3a
- Q was not born after July.
- P was born in July but not in the same month as Q and H.
- Persons who were born in may having odd numbered ages.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E		Q	16
June	Q	16	E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age	Person(Case-3a)	Age
May				
May				
June	Q	16		
June			Q	16
July	P		P	
July				
September	E		E	
September				

From:-

- G's age was multiple of 5 but not more than 14 that means G's age is 10
- Total age of E and G is a prime number but not 23 and 29 years and they were not born in the same month. That means the sum of the ages of E and G is 19. Now E's age is 9
- Difference between the age of E and Q was 3 less than the difference between the age of P and G. that means The age of P is 20
- E's age was not even numbered.
- Person whose age is 9 years was not born in September that means case-3 and case-3a gets eliminated.



Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September				
September				

From:-

- P was older than H and his age is not 17.
- H was not born in the same month as E was born.
- H was not born in May and he was not the born three persons after P
- P was born in July but not in the same month as Q and H.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September	H		H	
September				

From:-

- G neither born with P nor born in May.
- There was one person between G and the person whose age is multiple of 7.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July		14		14
September	H		H	
September	G	10	G	10

From:-

- Age of both the persons born in may is more than 33 years.
- F's age was five more than E's age and they were not born in the same month.
- S was not born in the month having an even number of days.
- E's age was 6 less than the person who was born immediately before E. that means case-2 gets eliminated
- Difference between the age of G and R was 7 less than the age of Q.
- H's age is 7 less than the age of P. R was not born after S.

Month	Person	Age
May	R	19
May	S	15
June	E	9
June	Q	16
July	P	20
July	F	14
September	H	13
September	G	10

Hence this is the final arrangement.

Q37 Text Solution:

Detailed Solution:-



From:-

- E was not born in the month having an odd number of days.
- P was born in July but not in the same month as Q and H.
- P was not born adjacent to the person who was born in September.
- E was not born in the last.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E			
June			E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age
May		
May		
June		
June		
July	P	
July		
September	E	
September		

From:-

- Q's age was multiple of 8 and one more than the age of the person who was born in the same month as N was born. That means the age of Q is 16 and the age the person who

was born in the same month as N is 15 also there is another case that is case-3a

- Q was not born after July.
- P was born in July but not in the same month as Q and H.
- Persons who were born in may having odd numbered ages.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E		Q	16
June	Q	16	E	
July	P		P	
July				
September				
September				

Month	Person(Case-3)	Age	Person(Case-3a)	Age
May				
May				
June	Q	16		
June			Q	16
July	P		P	
July				
September	E		E	
September				

From:-

- G's age was multiple of 5 but not more than 14 that means G's age is 10
- Total age of E and G is a prime number but not 23 and 29 years and they were not born



in the same month. That means the sum of the ages of E and G is 19. Now E's age is 9

- Difference between the age of E and Q was 3 less than the difference between the age of P and G. that means The age of P is 20
- E's age was not even numbered.
- Person whose age is 9 years was not born in September that means case-3 and case-3a gets eliminated.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September				
September				

From:-

- P was older than H and his age is not 17.
- H was not born in the same month as E was born.
- H was not born in May and he was not the born three persons after P
- P was born in July but not in the same month as Q and H.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July				
September	H		H	

September				
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From:-

- G neither born with P nor born in May.
- There was one person between G and the person whose age is multiple of 7.

Month	Person(Case-1)	Age	Person(Case-2)	Age
May				
May				
June	E	9	Q	16
June	Q	16	E	9
July	P	20	P	20
July		14		14
September	H		H	
September	G	10	G	10

From:-

- Age of both the persons born in may is more than 33 years.
- F's age was five more than E's age and they were not born in the same month.
- S was not born in the month having an even number of days.
- E's age was 6 less than the person who was born immediately before E. that means case-2 gets eliminated
- Difference between the age of G and R was 7 less than the age of Q.
- H's age is 7 less than the age of P. R was not born after S.

Month	Person	Age
May	R	19
May	S	15
June	E	9
June	Q	16
July	P	20
July	F	14



September	H	13
September	G	10

Hence this is the final arrangement.

Q38. Text Solution:

Detailed Solution:-

S#T(15m) means S is 20m north of T

S@T(19m) means S is 24m south of T

S%T(12m) means S is 17m east of T

S&T(17m) means S is 22m west of T

Note:- S@%T means S is south-east of T

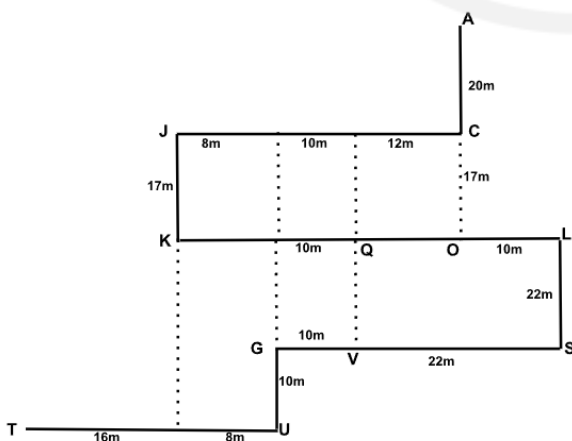
Condition 1: A#C(15), L%O(5), S@L(17), O@C(12)

Condition 2: J&C(25), Q%K(13), K@J(12), Q#V(17), U@G(5), U%T(19), G&V(5)

From above the conditions are adding five with each number.

Condition 1: A is 20m north of C, L is 10m east of O, S is 22m south of L, O is 17m south of C.

Condition 2: J is 30m west of C, Q is 18m east of K, K is 17m south of J, Q is 22m north of V, U is 10m south of G, U is 24m east of T, G is 10m west of V.



Hence this is the final arrangement.

Q39. Text Solution:

$$30+17+18=65$$

Detailed Solution:-

S#T(15m) means S is 20m north of T

S@T(19m) means S is 24m south of T

S%T(12m) means S is 17m east of T

S&T(17m) means S is 22m west of T

Note:- S@%T means S is south-east of T

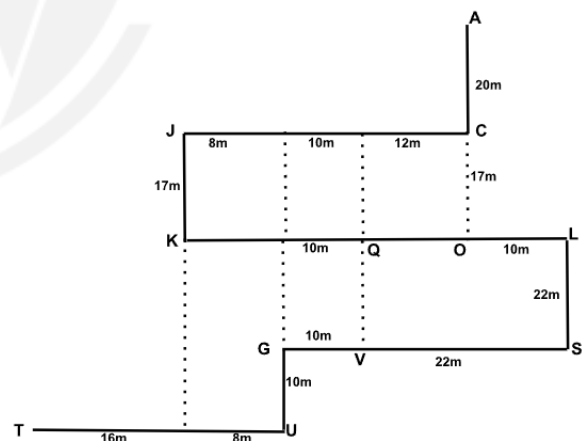
Condition 1: A#C(15), L%O(5), S@L(17), O@C(12)

Condition 2: J&C(25), Q%K(13), K@J(12), Q#V(17), U@G(5), U%T(19), G&V(5)

From above the conditions are adding five with each number.

Condition 1: A is 20m north of C, L is 10m east of O, S is 22m south of L, O is 17m south of C.

Condition 2: J is 30m west of C, Q is 18m east of K, K is 17m south of J, Q is 22m north of V, U is 10m south of G, U is 24m east of T, G is 10m west of V.



Hence this is the final arrangement.

Q40. Text Solution:

$$\sqrt{(10^2 + 24^2)} = \sqrt{676} = 26m$$

Detailed Solution:-



S#T(15m) means S is 20m north of T
 S@T(19m) means S is 24m south of T
 S%T(12m) means S is 17m east of T
 S&T(17m) means S is 22m west of T
 Note:- S@%T means S is south-east of T

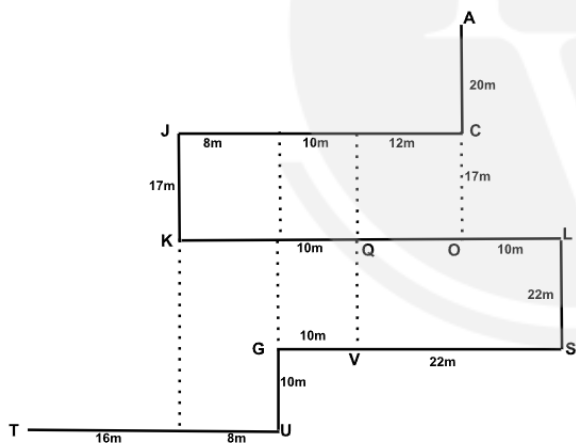
Condition 1: A#C(15), L%O(5), S@L(17), O@C(12)

Condition 2: J&C(25), Q%K(13), K@J(12), Q#V(17),
 U@G(5), U%T(19), G&V(5)

From above the conditions are adding five with each number.

Condition 1: A is 20m north of C, L is 10m east of O, S is 22m south of L, O is 17m south of C.

Condition 2: J is 30m west of C, Q is 18m east of K, K is 17m south of J, Q is 22m north of V, U is 10m south of G, U is 24m east of T, G is 10m west of V.



Hence this is the final arrangement.

Q41. Text Solution:

Detailed Solution:-

S#T(15m) means S is 20m north of T
 S@T(19m) means S is 24m south of T
 S%T(12m) means S is 17m east of T
 S&T(17m) means S is 22m west of T
 Note:- S@%T means S is south-east of T

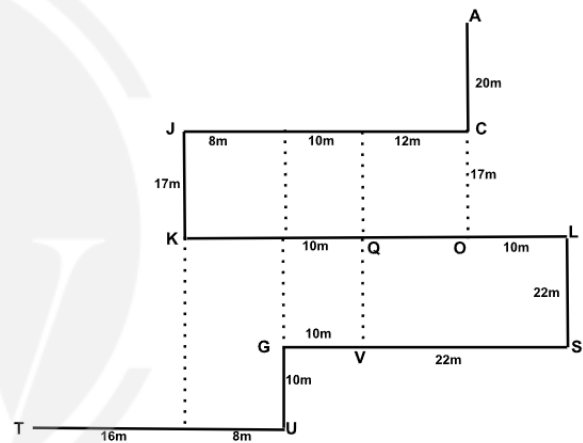
Condition 1: A#C(15), L%O(5), S@L(17), O@C(12)

Condition 2: J&C(25), Q%K(13), K@J(12), Q#V(17),
 U@G(5), U%T(19), G&V(5)

From above the conditions are adding five with each number.

Condition 1: A is 20m north of C, L is 10m east of O, S is 22m south of L, O is 17m south of C.

Condition 2: J is 30m west of C, Q is 18m east of K, K is 17m south of J, Q is 22m north of V, U is 10m south of G, U is 24m east of T, G is 10m west of V.



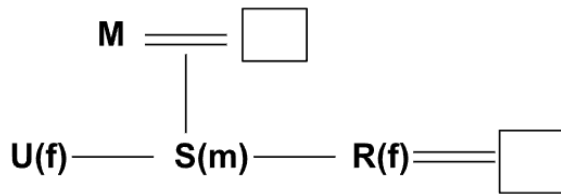
Hence this is the final arrangement.

Q42. Text Solution:

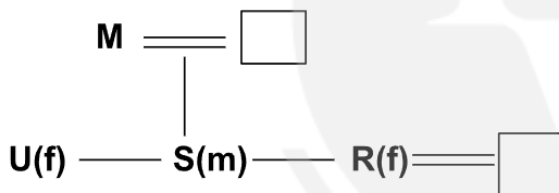
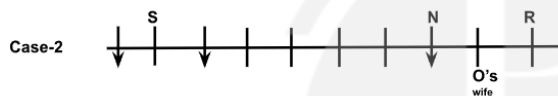
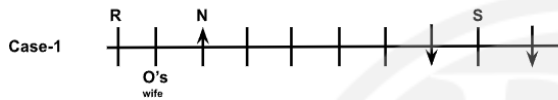
Detailed Solution:-

From:- S is the only son of M and was seated adjacent to R's husband. One person were seated between N and R who was the sibling of S and U.

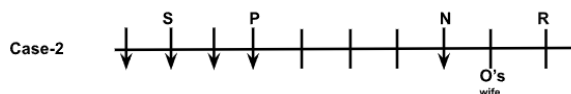
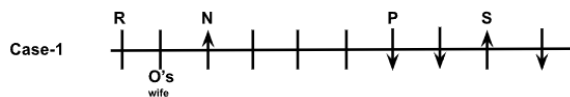




From:- O's wife is the only neighbour of R. One person were seated between N and R who was the sibling of S and U. Mother of P was seated immediate right of S who was seated sixth to the right of N. Immediate neighbour of S were not facing north.



From:- P was seated second to the left of U's brother and was facing south.



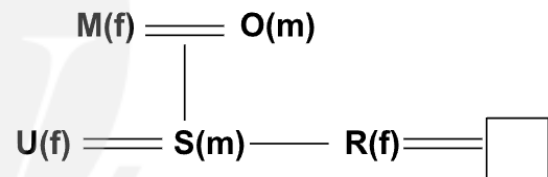
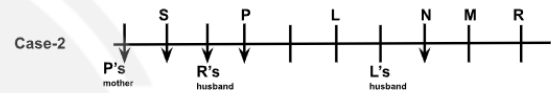
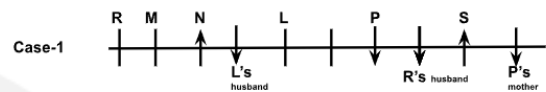
From:-

- Only three persons were seated between L's husband and R's husband and both were

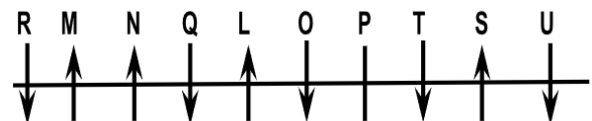
facing same direction.

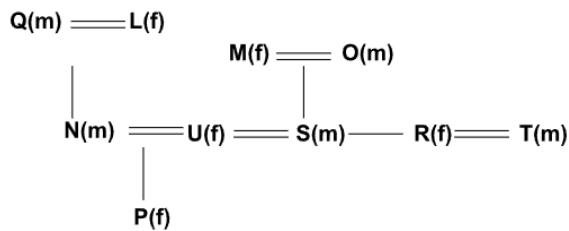
- Only two persons were seated between M and L. Mother of P was seated immediate right of S who was seated sixth to the right of N.
- S is the only son of M and was seated adjacent to R's husband.
- Q and L were seated immediately left to each other.

Reference:- We know that O's wife is the only neighbour of R from above the conditions M is the only neighbour of R that means M is the wife of O.



From:- N was the son of Q. Father of P was seated immediate right of M. R and O were facing the same direction but opposite to U's mother-in-law. P and R have same gender. Q and L were seated immediately left to each other. Now, we can eliminate Case 2.



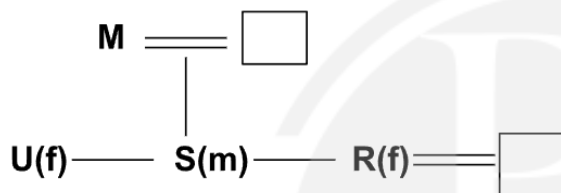


Hence this is the final arrangement.

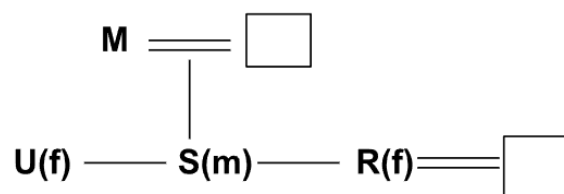
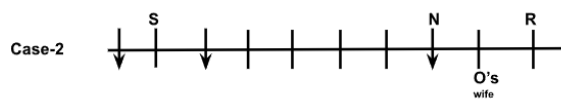
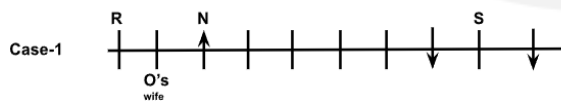
Q43. Text Solution:

Detailed Solution:-

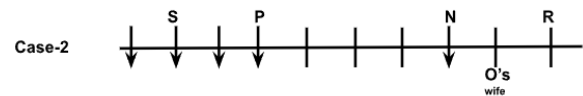
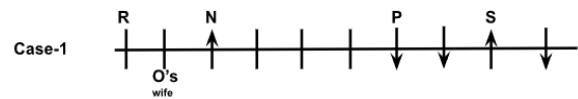
From:- S is the only son of M and was seated adjacent to R's husband. One person were seated between N and R who was the sibling of S and U.



From:- O's wife is the only neighbour of R. One person were seated between N and R who was the sibling of S and U. Mother of P was seated immediate right of S who was seated sixth to the right of N. Immediate neighbour of S were not facing north.



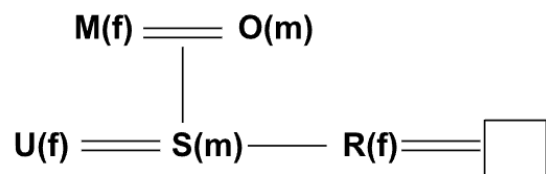
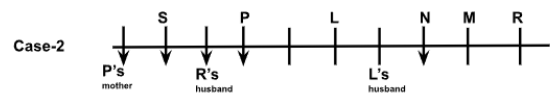
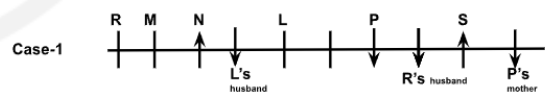
From:- P was seated second to the left of U's brother and was facing south.



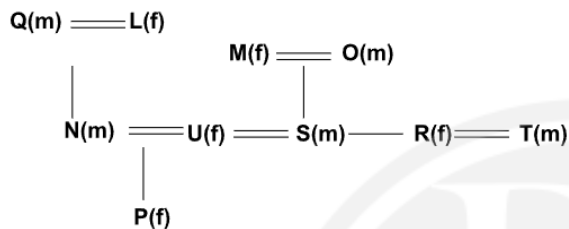
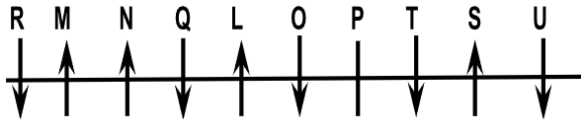
From:-

- Only three persons were seated between L's husband and R's husband and both were facing same direction.
- Only two persons were seated between M and L. Mother of P was seated immediate right of S who was seated sixth to the right of N.
- S is the only son of M and was seated adjacent to R's husband.
- Q and L were seated immediately left to each other.

Reference:- We know that O's wife is the only neighbour of R from above the conditions M is the only neighbour of R that means M is the wife of O.



From:- N was the son of Q. Father of P was seated immediate right of M. R and O were facing the same direction but opposite to U's mother-in-law. P and R have same gender. Q and L were seated immediately left to each other. Now, we can eliminate Case 2.

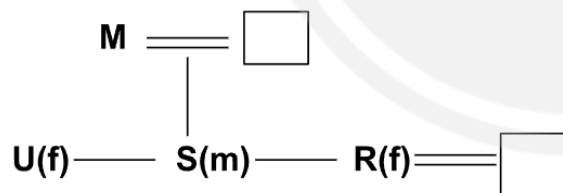


Hence this is the final arrangement.

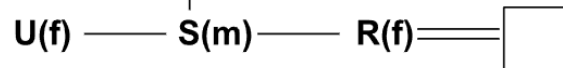
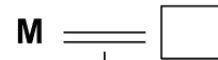
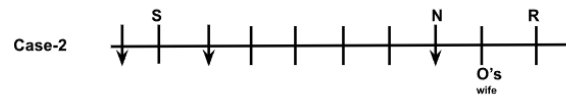
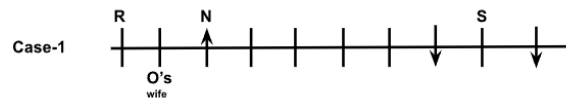
Q44. Text Solution:

Detailed Solution:-

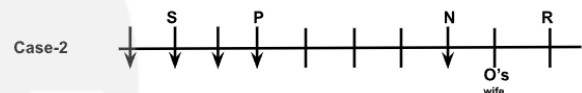
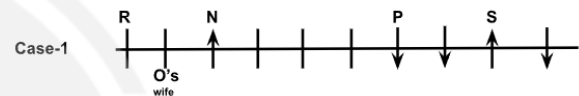
From:- S is the only son of M and was seated adjacent to R's husband. One person were seated between N and R who was the sibling of S and U.



From:- O's wife is the only neighbour of R. One person were seated between N and R who was the sibling of S and U. Mother of P was seated immediate right of S who was seated sixth to the right of N. Immediate neighbour of S were not facing north.



From:- P was seated second to the left of U's brother and was facing south.

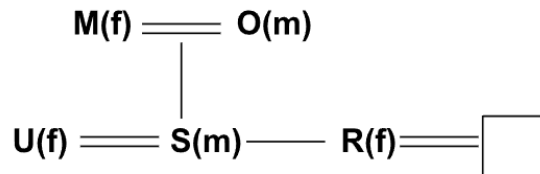
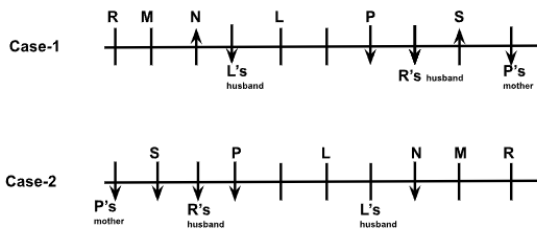


From:-

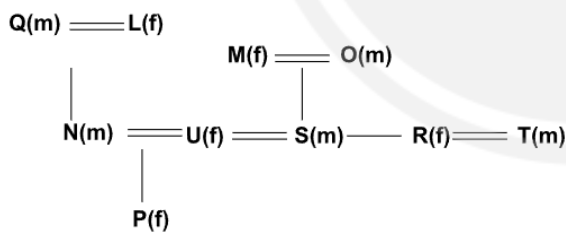
- Only three persons were seated between L's husband and R's husband and both were facing same direction.
- Only two persons were seated between M and L. Mother of P was seated immediate right of S who was seated sixth to the right of N.
- S is the only son of M and was seated adjacent to R's husband.
- Q and L were seated immediately left to each other.

Reference:- We know that O's wife is the only neighbour of R from above the conditions M is the only neighbour of R that means M is the wife of O.





From:- N was the son of Q. Father of P was seated immediate right of M. R and O were facing the same direction but opposite to U's mother-in-law. P and R have same gender. Q and L were seated immediately left to each other. Now, we can eliminate Case 2.

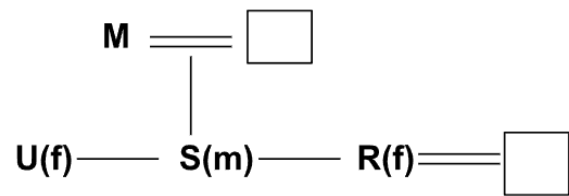


Hence this is the final arrangement.

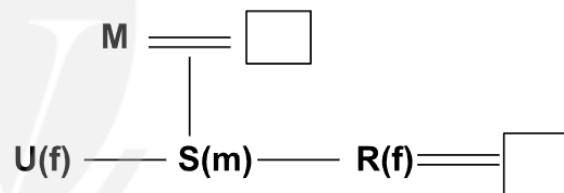
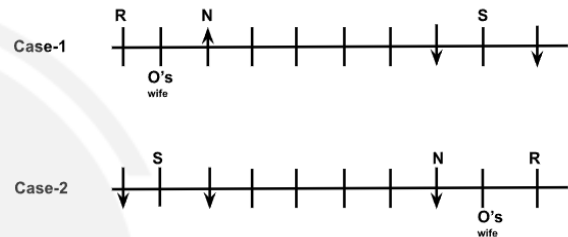
Q45. Text Solution:

Detailed Solution:-

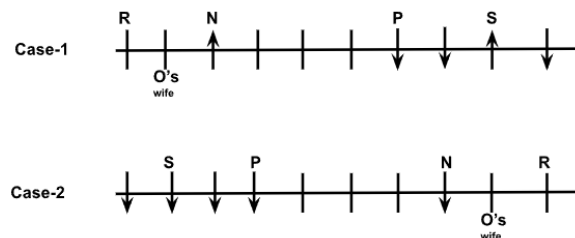
From:- S is the only son of M and was seated adjacent to R's husband. One person were seated between N and R who was the sibling of S and U.



From:- O's wife is the only neighbour of R. One person were seated between N and R who was the sibling of S and U. Mother of P was seated immediate right of S who was seated sixth to the right of N. Immediate neighbour of S were not facing north.



From:- P was seated second to the left of U's brother and was facing south.



From:-

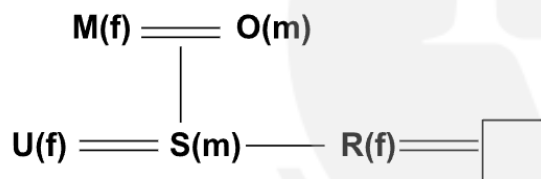
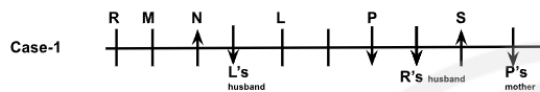
- Only three persons were seated between L's husband and R's husband and both were



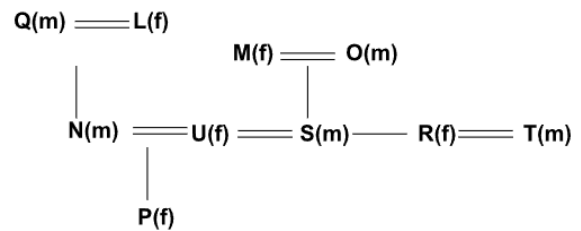
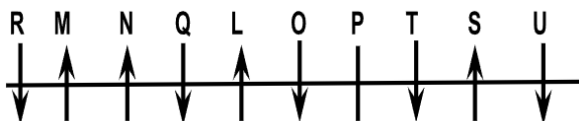
facing same direction.

- Only two persons were seated between M and L. Mother of P was seated immediate right of S who was seated sixth to the right of N.
- S is the only son of M and was seated adjacent to R's husband.
- Q and L were seated immediately left to each other.

Reference:- We know that O's wife is the only neighbour of R from above the conditions M is the only neighbour of R that means M is the wife of O.



From:- N was the son of Q. Father of P was seated immediate right of M. R and O were facing the same direction but opposite to U's mother-in-law. P and R have same gender. Q and L were seated immediately left to each other. Now, we can eliminate Case 2.

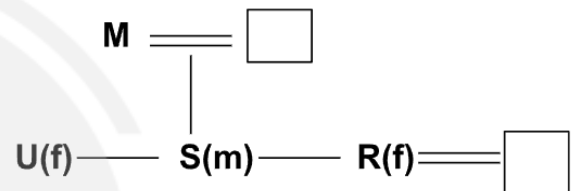


Hence this is the final arrangement.

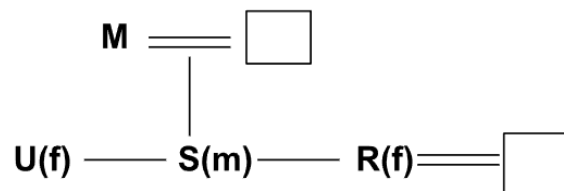
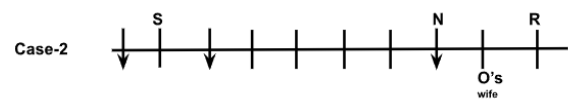
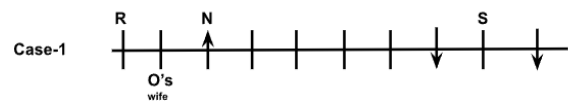
Q46. Text Solution:

Detailed Solution:-

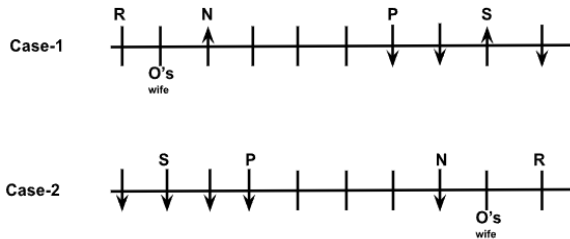
From:- S is the only son of M and was seated adjacent to R's husband. One person were seated between N and R who was the sibling of S and U.



From:- O's wife is the only neighbour of R. One person were seated between N and R who was the sibling of S and U. Mother of P was seated immediate right of S who was seated sixth to the right of N. Immediate neighbour of S were not facing north.



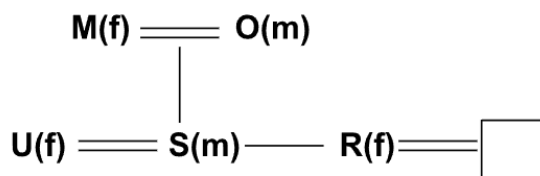
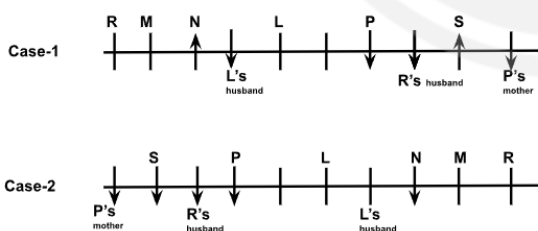
From:- P was seated second to the left of U's brother and was facing south.



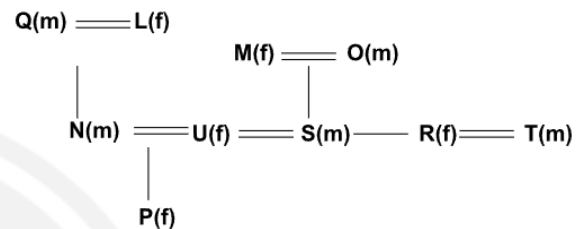
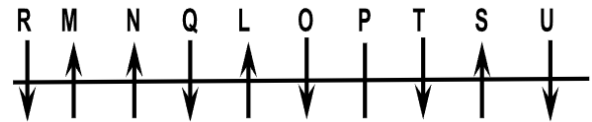
From:-

- Only three persons were seated between L's husband and R's husband and both were facing same direction.
- Only two persons were seated between M and L. Mother of P was seated immediate right of S who was seated sixth to the right of N.
- S is the only son of M and was seated adjacent to R's husband.
- Q and L were seated immediately left to each other.

Reference:- We know that O's wife is the only neighbour of R from above the conditions M is the only neighbour of R that means M is the wife of O.



From:- N was the son of Q. Father of P was seated immediate right of M. R and O were facing the same direction but opposite to U's mother-in-law. P and R have same gender. Q and L were seated immediately left to each other. Now, we can eliminate Case 2.



Hence this is the final arrangement.

Q47. Text Solution:

Detailed Solution:-

From:- H was placed to the north of C but not immediately north. Only N was placed to the west of C. Only one letter was placed between H and J either in the same row or in the same column.

Case-1

	H	J
N	C	

Case-1a

	H	



	J		
N	C		

Case-2

	H	J	
N	C		

Case-3

	H	J	
N	C		

From:- I was placed neither in the row of N nor in the column of N. B was placed immediately south-west of I and north of L. Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column. From these conditions case-1 case-2 and case-3 get eliminated.

Case-1a

	H		
		I	
	J	B	
N	C	L	

From:- E was placed immediately north-west of M. F was not placed in the same row of H and S. P was not placed in the row of K which was placed to the west of D. G was placed in the

south-east of O and P. P and O were placed in the adjacent columns.

K	H	A	D
P	O	E	I
F	J	B	M
N	C	L	H

Hence this is the final arrangement.

Q48. Text Solution:

Detailed Solution:-

From:- H was placed to the north of C but not immediately north. Only N was placed to the west of C. Only one letter was placed between H and J either in the same row or in the same column.

Case-1

	H	J	
N	C		

Case-1a

	H		
	J		
N	C		

Case-2

	H	J	



N	C	

Case-3

H	J	
N	C	

From:- I was placed neither in the row of N nor in the column of N. B was placed immediately south-west of I and north of L. Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column. From these conditions case-1 case-2 and case-3 get eliminated.

Case-1a

H		
		I
J	B	
N	C	L

From:- E was placed immediately north-west of M. F was not placed in the same row of H and S. P was not placed in the row of K which was placed to the west of D. G was placed in the south-east of O and P. P and O were placed in the adjacent columns.

K	H	A	D
P	O	E	I
F	J	B	M
N	C	L	G

Hence this is the final arrangement.

Q49. Text Solution:

Detailed Solution:-

From:- H was placed to the north of C but not immediately north. Only N was placed to the west of C. Only one letter was placed between H and J either in the same row or in the same column.

Case-1

H	J	
N	C	

Case-1a

H		
J		
N	C	

Case-2

H	J	
N	C	

Case-3

H	J	



N	C		
---	---	--	--

From:- I was placed neither in the row of N nor in the column of N. B was placed immediately south-west of I and north of L. Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column. From these conditions case-1 case-2 and case-3 get eliminated.

Case-1a

H			
		I	
J	B		
N	C	L	

From:- E was placed immediately north-west of M. F was not placed in the same row of H and S. P was not placed in the row of K which was placed to the west of D. G was placed in the south-east of O and P. P and O were placed in the adjacent columns.

K	H	A	D
P	O	E	I
F	J	B	M
N	C	L	H

Hence this is the final arrangement.

Q50. Text Solution:

Detailed Solution:-

From:- H was placed to the north of C but not immediately north. Only N was placed to the west of C. Only one letter was placed between H and J either in the same row or in the same column.

Case-1

H	J		

N	C		
---	---	--	--

Case-1a

H			
J			
N	C		

Case-2

H	J		
N	C		

Case-3

H	J		
N	C		

From:- I was placed neither in the row of N nor in the column of N. B was placed immediately south-west of I and north of L. Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column. From these conditions case-1 case-2 and case-3 get eliminated.

Case-1a



	H		
			I
	J	B	
N	C	L	

From:- E was placed immediately north-west of M. F was not placed in the same row of H and S. P was not placed in the row of K which was placed to the west of D. G was placed in the south-east of O and P. P and O were placed in the adjacent columns.

K	H	A	D
P	O	E	I
F	J	B	M
N	C	L	H

Hence this is the final arrangement.

Q51. Text Solution:

Detailed Solution:-

From:- H was placed to the north of C but not immediately north. Only N was placed to the west of C. Only one letter was placed between H and J either in the same row or in the same column.

Case-1

	H	J	
N	C		

Case-1a

	H		
	J		

N	C		

Case-2

	H	J	
N	C		

Case-3

	H	J	
N	C		

From:- I was placed neither in the row of N nor in the column of N. B was placed immediately south-west of I and north of L. Consecutive letters according to the English alphabetical series are neither placed in the same row nor in the same column. From these conditions case-1 case-2 and case-3 get eliminated.

Case-1a

	H		
			I
	J	B	
N	C	L	

From:- E was placed immediately north-west of M. F was not placed in the same row of H and S. P was not placed in the row of K which was placed to the west of D. G was placed in the south-east of O and P. P and O were placed in the adjacent columns.



K	H	A	D
P	O	E	I
F	J	B	M
N	C	L	H

Hence this is the final arrangement.

Q52 Text Solution:

Let the number of days taken by Amit, Bheem and Charan to finish the work alone be 'a', 'b' and 'c' days respectively.

$$\begin{aligned}\frac{1}{a} + \frac{1}{b} &= \frac{1}{10} \\ \frac{1}{c} &= 75\% \text{ of } \left(\frac{1}{b}\right) = \frac{3}{4b} \\ \frac{1}{b} + \frac{1}{c} &= \frac{7}{120} \\ \Rightarrow \frac{1}{b} + \frac{3}{4b} &= \frac{7}{120} \\ \Rightarrow \frac{7}{4b} &= \frac{7}{120} \\ \Rightarrow b &= 30\end{aligned}$$

B) is true

$$\begin{aligned}\frac{1}{c} &= \frac{3}{4 \times 30} = \frac{1}{40} \\ \Rightarrow c &= 40 \\ \frac{1}{a} &= \frac{1}{10} - \frac{1}{30} = \frac{1}{15} \\ \Rightarrow a &= 15\end{aligned}$$

Part of work done by Bheem and Charan in 1 day under given condition = $\frac{1}{30} - \frac{1}{40} = \frac{1}{120}$

Number of days taken to complete = 120

A) is true

Part of work done by Amit and Dhanush together in 1 day

$$= \frac{1}{15} + \frac{1}{18} = \frac{11}{90}$$

Number of days taken to complete = $\frac{90}{11}$

C) is true

Q53 Text Solution:

Given, $1 \leq P \leq 3$, $4 \leq Q \leq 6$, and $7 \leq R \leq 9$

Quantity I:

For minimum value $P = 1$, $Q = 4$ and $R = 7$

$$\begin{aligned}(P - Q)(Q - R)(R - P) + PQR \\ &= (1 - 4)(4 - 7)(7 - 1) + 1 \times 4 \times 7 \\ &= (-3) \times (-3) \times 6 + 28 \\ &= 54 + 28 \\ &= 82\end{aligned}$$

And for maximum value $P = 3$, $Q = 6$ and $R = 9$

$$\begin{aligned}(P - Q)(Q - R)(R - P) + PQR \\ &= (3 - 6)(6 - 9)(9 - 3) + 3 \times 6 \times 9 \\ &= (-3) \times (-3) \times 6 + 162 \\ &= 54 + 162 \\ &= 216\end{aligned}$$

Hence, $82 \leq \text{Quantity I} \leq 216$

Quantity II:

For minimum value $P = 1$, $Q = 4$ and $R = 7$

$$\begin{aligned}(PQ + QR)(P^2 + Q^2 + R^2) \\ &= (1 \times 4 + 4 \times 7)(1 + 16 + 49) \\ &= 32 \times 66 \\ &= 2112\end{aligned}$$

And for maximum value $P = 3$, $Q = 6$ and $R = 9$

$$\begin{aligned}(PQ + QR)(P^2 + Q^2 + R^2) \\ &= (3 \times 6 + 6 \times 9)(9 + 36 + 81) \\ &= 72 \times 126 \\ &= 9072 \\ 2112 &\leq \text{Quantity II} \leq 9072\end{aligned}$$

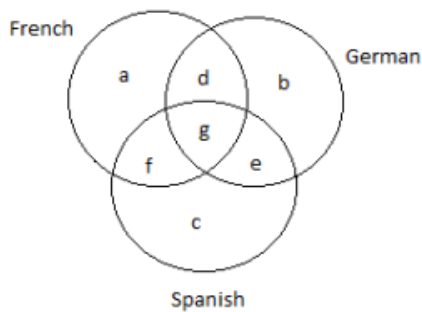
Therefore, Quantity I < Quantity II

Q54. Text Solution:

Group P:

Let the Venn diagram:





Let total people in group

$$P = X = a + b + c + d + e$$

$$+ f + g$$

13% of people can speak only Spanish.

$$c = 13\% \text{ of } X$$

86 people can speak French but not German.

$$a + f = 86$$

44% of people can speak German. Then,

$$a + f + c = (100 - 44)\% \text{ of } X$$

$$86 + 13\% \text{ of } X = 56\% \text{ of } X$$

$$X = 200$$

$$c = 13\% \text{ of } 200 \Rightarrow c = 26$$

11% of people can speak only German.

$$b = 11\% \text{ of } 200 \Rightarrow b = 22$$

50% of people can speak French. Then,

$$b + e + c = (100 - 50)\% \text{ of } 200$$

$$22 + e + 26 = 50\% \text{ of } 200$$

$$e = 52$$

The Number of people who can speak only French and the number of people who can speak all three languages together is 44.

$$a + g = 44$$

74 people can speak Spanish but not German.

Then,

$$f + c = 74$$

$$f + 26 = 74 \Rightarrow f = 48$$

$$\text{And } a + 48 = 86 \Rightarrow a = 38$$

$$38 + g = 44 \Rightarrow g = 6$$

$$\text{Now, } a + b + c + d + e + f + g = 200$$

$$38 + 22 + 26 + d + 52 + 48 + 6 = 200$$

$$d = 8$$

Now, number of people who were called for interview from group $P = d + e + f + g$

$$= 8 + 52 + 48 + 6$$

$$= 114$$

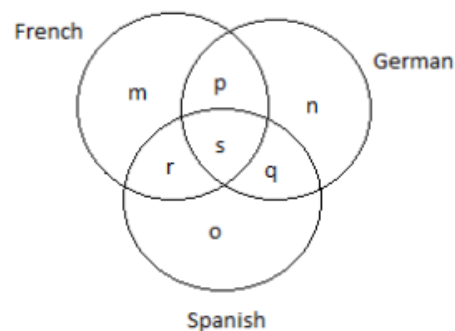
Respective ratio of male to female who were called for the interview from group P is $2 : 1$.

Then, Number of males called for interview = $\frac{114 \times 2}{2+1} = 76$

Number of females called for interview = $114 - 76 = 38$

Group Q:

Let the Venn diagram:



Let total people in group

$$Q = Y = m + n + o + p + q + r + s$$

120 people can speak French. Then,

$$m + p + r + s = 120$$



56% of people can speak Spanish which is 10 more than the number of people who cannot speak French.

$$\begin{aligned}s + q + r + o &= 56\% \text{ of } Y \\ n + q + o &= 56\% \text{ of } Y - 10\end{aligned}$$

Then, $Y = 120 + 56\% \text{ of } Y - 10$

$$0.44Y = 110$$

$$Y = 250$$

$$s + q + r + o = 56\% \text{ of } 250 = 140$$

$$n + q + o = 140 - 10 = 130$$

12% of people can speak all three languages which is 2 more than the number of people who can speak only French.

$$s = 12\% \text{ of } 250 = 30 \Rightarrow s = 30$$

$$m = 30 - 2 \Rightarrow m = 28$$

34.4% of people can speak Spanish but not French.

$$q + o = 34.4\% \text{ of } 250 = 86$$

$$\text{Now, } n + 86 = 130 \Rightarrow n = 44$$

$$\text{And } 30 + r + 86 = 140$$

$$r = 24$$

$$28 + p + 24 + 30 = 120$$

$$p = 38$$

Respective ratio of the number of people who can speak only Spanish to the number of people who can speak both Spanish and French but not German is 9 : 4. Then,

$$o : r = 9 : 4$$

$$o = \left(\frac{9}{4}\right) \times 24 \Rightarrow o = 54$$

$$q + 54 = 86 \Rightarrow q = 32$$

Now, number of people who were called for interview from group Q = $p + q + r + s$

$$\begin{aligned}&= 38 + 32 + 24 + 30 \\ &= 124\end{aligned}$$

Out of people who were called for an interview from group Q, 25% were males. Then,

Number of males called for interview = 25% of 124 = 31

Number of females called for interview = 124 - 31 = 93

From quantity I:

Number of people who can speak German but not Spanish in group

$$P = b + d = 22 + 8 = 30$$

From quantity II:

Number of people who can speak only French in group P and Q = $a + m = 38 + 28 = 66$

From quantity III:

Number of people who can speak Spanish but not

German in group Q = $r + o = 24 + 54 = 78$

Hence, Quantity I < Quantity II < Quantity III

Q55. Text Solution:

For group Q:

Total people called for interview = 124

Then, $(2k + 1) + (k + 11) + 16 = 124$

$$3k + 28 = 124$$

$$3k = 96$$

$$k = 32$$

Q56. Text Solution:

Number of males who called for interview from both the groups together = 76 + 31 = 107

Number of people who can speak only one language in group

$P = a + b + c = 200 - 114 = 86$ Number of



people who can speak only one language in group $Q = m + n + o = 250 - 124 = 126$

Difference between number of people who can speak only one language in group P and $Q = 126 - 86 = 40$

Therefore, percentage
 $= \left(\frac{107}{40}\right) \times 100 = 267.5\%$

Q57. Text Solution:

Series I: 190, 191, 255, 498, P , 879, 915

$$\begin{aligned}190 + 1^7 &= 191 \\191 + 2^6 &= 255 \\255 + 3^5 &= 498 \\498 + 4^4 &= 754 = P \\754 + 5^3 &= 879 \\879 + 6^2 &= 915\end{aligned}$$

Series II: 44, 48, 75, 91, Q , 252

$$\begin{aligned}44 + 2^2 &= 48 \\48 + 3^3 &= 75 \\75 + 4^2 &= 91 \\91 + 5^3 &= 216 = Q \\216 + 6^2 &= 252\end{aligned}$$

Series III: 919, 922, 932, R , 1027, 1154

$$\begin{aligned}919 + 1^3 + 2 &= 922 \\922 + 2^3 + 2 &= 932 \\932 + 3^3 + 2 &= 961 = R \\961 + 4^3 + 2 &= 1027 \\1027 + 5^3 + 2 &= 1154\end{aligned}$$

Unit digit of
 $[5^P + 2^Q + 6^R] = [5^{754} + 2^{216} + 6^{961}] = 5$
 $+6 + 6 = 17 = 7$

Q58. Text Solution:

Series I: 190, 191, 255, 498, P , 879, 915

$$\begin{aligned}190 + 1^7 &= 191 \\191 + 2^6 &= 255 \\255 + 3^5 &= 498 \\498 + 4^4 &= 754 = P \\754 + 5^3 &= 879 \\879 + 6^2 &= 915\end{aligned}$$

Series II: 44, 48, 75, 91, Q , 252

$$\begin{aligned}44 + 2^2 &= 48 \\48 + 3^3 &= 75 \\75 + 4^2 &= 91 \\91 + 5^3 &= 216 = Q \\216 + 6^2 &= 252\end{aligned}$$

Series III: 919, 922, 932, R , 1027, 1154

$$\begin{aligned}919 + 1^3 + 2 &= 922 \\922 + 2^3 + 2 &= 932 \\932 + 3^3 + 2 &= 961 = R \\961 + 4^3 + 2 &= 1027 \\1027 + 5^3 + 2 &= 1154\end{aligned}$$

$$\begin{aligned}\text{value of } \left[\frac{P}{29} + \sqrt[3]{Q} - \sqrt{R} \right] \\&= \left[\frac{754}{29} + \sqrt[3]{216} - \sqrt{961} \right] \\&= 26 + 6 - 31 = 1\end{aligned}$$

Q59 Text Solution:

From I:

$$\text{Syrup} = \frac{a}{a+b} \times 54$$

$$\text{Water} = \frac{b}{a+b} \times 54$$

$$\begin{aligned}\left[\frac{a}{a+b} \times 54 + 10 \right] \div \left[\frac{b}{a+b} \times 54 + 6 \right] \\&= \frac{4}{3}\end{aligned}$$

$$\begin{aligned}\Rightarrow 3 \times \left[\frac{a}{a+b} \times 54 + 10 \right] &= 4 \\&\times \left[\frac{b}{a+b} \times 54 + 6 \right]\end{aligned}$$



$$\begin{aligned}
\Rightarrow \frac{162a}{a+b} + 30 &= \frac{216b}{a+b} + 24 \\
\Rightarrow \frac{216a - 162a}{a+b} &= 30 - 24 \\
\Rightarrow \frac{216a - 162a}{a+b} &= 6 \\
\Rightarrow 216b - 162a &= 6a + 6b \\
\Rightarrow 216b - 6b &= 6a + 162a \\
\Rightarrow 210b &= 168a \\
\Rightarrow \frac{a}{b} &= \frac{210}{168} \\
\Rightarrow \frac{a}{b} &= 5 : 4
\end{aligned}$$

From II:

A 60 litres mixture of milk and water contains milk and water in the ratio 7 : 5 respectively. If y litres of the mixture is replaced with water, the ratio of milk and water in the mixture becomes 7 : 23 respectively.

$$\begin{aligned}
\text{Amount of milk} &= \frac{7}{7+5} \times 60 \\
&= \frac{7}{12} \times 60 = 35 \text{ litres}
\end{aligned}$$

$$\begin{aligned}
\text{Amount of water} &= \frac{5}{7+5} \times 60 \\
&= \frac{5}{12} \times 60 \\
&= 25 \text{ litres}
\end{aligned}$$

$$\begin{aligned}
\frac{35 - \frac{7z}{12}}{25 - \frac{5z}{12} + z} &= \frac{7}{23} \\
\Rightarrow 23 \times \left(35 - \frac{7z}{12} \right) &= 7 \times \left(25 - \frac{5z}{12} + z \right) \\
\Rightarrow 23 \times \frac{420 - 7z}{12} &= 7 \times \frac{300 - 5z + 12z}{12} \\
\Rightarrow 23 \times (420 - 7z) &= 7 \times (300 + 7z) \\
\Rightarrow 9660 - 161z &= 2100 + 49z \\
\Rightarrow 161z + 49z &= 9660 - 2100 \\
\Rightarrow 210z &= 7560 \\
\Rightarrow z &= \frac{7560}{210} \\
\Rightarrow z &= 36
\end{aligned}$$

From III:

$$y = 3z$$

From I, II and III:

$$y = 3 \times 36 = 108$$

Amount of milk in the initial mixture

$$= \frac{5}{5+4} \times 108 = \frac{5}{9} \times 108 = 60 \text{ litres}$$

Amount of milk in the final mixture

$$\begin{aligned}
&= \frac{5}{9} \times 108 - \frac{5}{9} \times 36 + 10 = 60 - 20 + 10 \\
&= 50 \text{ litres}
\end{aligned}$$

$$\text{Required ratio} = 60 : 50 = 6 : 5$$

Hence, all I, II and III together are sufficient.

Q60 Text Solution:

$$\text{S.I earned} = \frac{12000 \times 3 \times 20}{100} = \text{Rs } 7,200$$

$$\begin{aligned}
\text{C.I earned} &= 12000 \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right] \\
&= \text{Rs } 2520
\end{aligned}$$

$$\text{Difference} = 7200 - 2520 = \text{Rs } 4,680$$

True

B):

$$\begin{aligned}
\text{C.I earned} &= 12000 \left[\left(1 + \frac{20}{100} \right)^2 - 1 \right] \\
&= \text{Rs } 2520
\end{aligned}$$

True

C):

We know ratio of S.I and C.I earned in 2 years

$$\begin{aligned}
&= \frac{2}{2 + r\%} \\
&= \frac{2}{2 + 25\%} \\
&= \frac{2}{2 + 0.25} \\
&= \frac{8}{9}
\end{aligned}$$



True

D):

We know, Difference between the C.I and S.I earned on the principle if invested at the same rate

$$\begin{aligned}
 &= P\left(\frac{r}{100}\right)^2 \\
 &= 12000\left(\frac{20}{100}\right)^2 \\
 &= \text{Rs } 480
 \end{aligned}$$

True

Q61. Text Solution:

Fare from A when booking starts = Rs. 5000
 Total fare after 10% discount from A when booking starts = $5000 \times \left(\frac{90}{100}\right) = \text{Rs. } 4500$
 Fare from B when price is highest = Rs. 10000
 Total fare after 20% discount from B when price is highest = $10000 \times \left(\frac{80}{100}\right) = \text{Rs. } 8000$
 Required ratio = $4500 : 8000 = 9 : 16$

Q62. Text Solution:

Total fare collected by B

$$y \times 80\% \text{ of } 9000 = 648000$$

$$y = 90$$

Total fare collected by C

$$\begin{aligned}
 z \times 90\% \text{ of } 4000 &= 360000 \\
 z &= 100
 \end{aligned}$$

Required ratio

$$90 : 100 = 9 : 10$$

Q63. Text Solution:

Booking from A when booking just start = Rs. 5000
 Total fare of 20 people from A

$$20 \times 90\% \text{ of } 5000 = 90000$$

Booking from C when booking just start = Rs. 4000

Total fare of 20 people from C

$$20 \times 90\% \text{ of } 4000 = 72000$$

$$\text{Savings} = 90000 - 72000$$

$$= \text{Rs. } 18000$$

Q64. Text Solution:

Let the number of passengers that booked their airline when price is highest and when the price is lowest is 'm' and 'm + 10'

Booking from D when price is highest = Rs. 12000

Total fare amount of 'm' passengers
 $m \times (80\% \text{ of } 12000) = 9600m$

Airline booked from D when price is lowest = Rs. 4000

Total fare amount of 'm + 10' passengers

$$\begin{aligned}
 &(m + 10) \times (90\% \text{ of } 4000) \\
 &= 3600(m + 10)
 \end{aligned}$$

Now according to question

$$\begin{aligned}
 9600m : 3600(m + 10) &= 72 : 117 \\
 m &= 3
 \end{aligned}$$

Number of passenger booked their airline when price is lowest = $10 + 3 = 13$

Q65. Text Solution:

Airline fare of F when booking starts

$$\frac{3000 + 12000}{2} = \text{Rs. } 7500$$

Lowest fare of F = 60% of 7500

Rs. 4500

Total fare amount of 16 passengers when price is lowest

$$4500 \times 16 = \text{Rs. } 72000$$

Total fare amount of 15 passengers when price is highest = $10 \times y = \text{Rs. } 72000$

$$y = 7200$$



∴ Highest fare of F without discount

$$= 7200 \times \left(\frac{100}{80} \right) \\ = \text{Rs. } 9000$$

Q66 Text Solution:

Total distance = 2000km

Ratio of time taken by car, bus and train = $2 : 3$

:

4

Let time taken by car, bus and train are $2a$, $3a$ and $4a$ respectively.

From option (1):

Speed of car = 45km/hr

Speed of train = 60km/hr

Distance covered by bus = 30% of $2000 = 600\text{km}$

Distance covered by car = $90a$

Distance covered by train = $240a$

$$90a + 240a = 2000 - 600 = 1400$$

$$a = 4.24$$

Distance covered by car = $90a = 381.8\text{km}$

From option (2):

Distance covered by bus = 30% of $2000 = 600\text{km}$

Time taken by bus = $\left(\frac{150}{100} \right) \times$ time taken by car

Given data is not sufficient to find the answer.

Hence, this option is not sufficient alone.

From option (3):

Time taken by train - time taken by bus = 5 hours

$$4a - 3a = 5 \\ a = 5$$

Time taken by bus = $3a = 3 \times 5 = 15$ hours

Time taken by train = $4a = 4 \times 5 = 20$ hours

Distance covered by bus = $15 \times 40 = 600\text{km}$

Distance covered by train

$$= 20 \times 60 = 1200\text{km}$$

Distance covered by car

$$= 2000 - (600 + 1200) = 200\text{km}$$

From option (4):

Let speed of train be ' S '

Speed of car = 70% of speed of train

$$= 70\% \times S$$

Distance covered by train

$$= 35 \times 2000 = 700\text{km}$$

Distance covered by train

$$= 4 \times a \times S = 700 = a \times S = 175$$

Distance covered by car

$$= 2 \times a \times 70\% \times S = 2 \times$$

$$0.7 \times 175 = 245\text{km}.$$

Q67. Text Solution:

$$Q^3 = \sqrt{4096}$$

\[

\begin{aligned}

$$\& Q^3 = \pm 64 \\\$$

$$\& Q = 4 \\\$$

$$\& 2P + Q = 16 \\\$$

$$\& 2P + 4 = 16 \\\$$

$$\& P = 6 \\\$$

$$\& 10 > R > P \\\$$

$$\& 10 > R > 6$$

\end{aligned}

\]

But R is a prime number. So,

$$R = 7$$

Now, Equation I:

$$x^2 - 2(P + 1)x + 8P = 0$$

$$x^2 - 2(6 + 1)x + 8 \times 6 = 0$$

$$x^2 - 14x + 48 = 0$$

$$x^2 - 8x - 6x + 48 = 0$$

$$x(x - 8) - 6(x - 8) = 0$$

$$(x - 8)(x - 6) = 0$$

$$x = 8, 6$$



Equation II:

$$\begin{aligned}
 y^2 - 4Qy + 12Q &= 0 \\
 y^2 - 4 \times 4 \times y + 12 \times 4 &= 0 \\
 y^2 - 16y + 48 &= 0 \\
 y^2 - 12y - 4y + 48 &= 0 \\
 y(y - 12) - 4(y - 12) &= 0 \\
 (y - 12)(y - 4) &= 0 \\
 y &= 12, 4
 \end{aligned}$$

Equation III:

$$\begin{aligned}
 (P - Q)z^2 - (2R - 1)z + 20 &= 0 \\
 (6 - 4)z^2 - (2 \times 7 - 1)z + 20 &= 0 \\
 2z^2 - 13z + 20 &= 0 \\
 2z^2 - 8z - 5z + 20 &= 0 \\
 2z(z - 4) - 5(z - 4) &= 0 \\
 (z - 4)(2z - 5) &= 0 \\
 z &= 4, \frac{5}{2}
 \end{aligned}$$

Larger root of equation I = 8

Larger root of equation II = 12

Larger root of equation III = 4

Therefore, product = $8 \times 12 \times 4 = 384$ **Q68. Text Solution:**

```

\\
\begin{aligned}
&\& Q^3=\sqrt{4096} \\
&\& Q^3=\pm 64 \\
&\& Q=4 \\
&\& 2P+Q=16 \\
&\& 2P+4=16 \\
&\& P=6 \\
&\& 10>R>P
\end{aligned}
\\

```

$$10 > R > 6$$

But R is a prime number. So,

$$R = 7$$

Now, Equation I:

$$\begin{aligned}
 x^2 - 2(P + 1)x + 8P &= 0 \\
 x^2 - 2(6 + 1)x + 8 \times 6 &= 0 \\
 x^2 - 14x + 48 &= 0 \\
 x^2 - 8x - 6x + 48 &= 0 \\
 x(x - 8) - 6(x - 8) &= 0 \\
 (x - 8)(x - 6) &= 0 \\
 x &= 8, 6
 \end{aligned}$$

Equation II:

$$\begin{aligned}
 y^2 - 4Qy + 12Q &= 0 \\
 y^2 - 4 \times 4 \times y + 12 \times 4 &= 0 \\
 y^2 - 16y + 48 &= 0 \\
 y^2 - 12y - 4y + 48 &= 0 \\
 y(y - 12) - 4(y - 12) &= 0 \\
 (y - 12)(y - 4) &= 0 \\
 y &= 12, 4
 \end{aligned}$$

Equation III:

$$\begin{aligned}
 (P - Q)z^2 - (2R - 1)z + 20 &= 0 \\
 (6 - 4)z^2 - (2 \times 7 - 1)z + 20 &= 0 \\
 2z^2 - 13z + 20 &= 0 \\
 2z^2 - 8z - 5z + 20 &= 0 \\
 2z(z - 4) - 5(z - 4) &= 0 \\
 (z - 4)(2z - 5) &= 0 \\
 z &= 4, \frac{5}{2}
 \end{aligned}$$

From (i):

No root of equation I is equal to any of the roots of equation II.

So, statement (i) is false.

From (ii):

When smaller root of equation III is multiplied with 4 then the resultant = $\frac{5}{2} \times 4 = 10$

Larger root of equation I = 8

This means when the smaller root of equation III is multiplied with 4 then the resultant becomes 2 more than the larger root of equation I.

So, statement (ii) is true.

From (iii):



Difference between the roots of equation II
 $= 12 - 4 = 8$

Ans $R + 1 = 7 + 1 = 8$

This means, the difference between the roots of equation II is $(R + 1)$.

So, statement (iii) is true.

Q69. Text Solution:

Let the radius and height of $C1$ are $r1cm$ and $h1 cm$ respectively. Had the height of $C1$ reduced to its radius, twice its volume (in cm^3) would have been 14 times the sum of area (in cm^2) of its bases. Then,

Sum of area of bases of $C1 = 2 \times \pi \times r1^2$

New volume of $C1 = \pi \times r1^2 \times r1 = \pi \times r1^3$

Now, $2 \times \pi \times r1^3 = 14 \times (2 \times \pi \times r1^2)$

$$r1 = 14$$

Radius of $C2$ is $1cm$ more than the radius of $C1$

Then,

Radius of $C2 = 1 + 14 = 15cm$

Height of $C2$ is $2pcm$.

Total cost of painting the outer surface of $C2$ at Rs. p per cm^2 is Rs. 280500. Then,

Outer surface area of $C2 = 2 \times \pi \times \text{radius of } C2 \times (\text{height of } C2 + \text{radius of } C2)$

$$\frac{280500}{p} = 2 \times \frac{22}{7} \times 15 \times (2p + 15)$$

$$2p^2 + 15p - 2975 = 0$$

$$2p^2 + 85p - 70p - 2975 = 0$$

$$p(2p + 85) - 35(2p + 85) = 0$$

$$(2p + 85)(p - 35) = 0$$

$$p = -\frac{85}{2} \text{ (not possible) }, 35$$

So, $p = 35$

Now, height of $C2 = 2 \times 35 = 70cm$

Volume of $C2 = \pi \times (\text{radius of } C2)^2 \times \text{height of } C2$

$$\begin{aligned} &= \frac{22}{7} \times (15)^2 \times 70 \\ &= 49500cm^3 \\ &= 49.5 \text{ liters} \end{aligned}$$

Quantity of water in $C1$ is 3.3 liters less than the quantity of water in $C2$. Then,

Quantity of water in $C1 = 49.5 - 3.3 = 46.2$ liters

Then, volume of

$$C1 = 46.2 \times 1000cm^3 = 46200 cm^3$$

$$\text{Now, } 46200 = \pi \times r1^2 \times h1$$

$$46200 = \frac{22}{7} \times 14^2 \times h1$$

$$h1 = 75$$

Cost of painting outer curved surface of $C1$ at

Rs. $(q - 5)$ per cm^2 is Rs. 165000. Then,

Curved surface area of outer surface of

$$C1 = 2 \times \pi$$

$$\times r1 \times h1$$

$$\frac{165000}{q - 5} = 2 \times \frac{22}{7} \times 14 \times 75$$

$$25 = q - 5$$

$$q = 30$$

Total quantity of water emptied in the cuboidal tank = $46.2 + 49.5 = 95.7$ liters

Then, volume of cuboidal tank

$$= 95.7 \times 1000cm^3 = 95700cm^3$$

Now, volume of cuboidal tank = length $\times$ breadth $\times$ height

$$95700 = 2(q - 5) \times q \times \text{height}$$

$$95700 = 2(30 - 5) \times 30 \times \text{height}$$

$$\text{Height} = 63.8cm$$

Q70. Text Solution:

Height of conical cistern = $\frac{70}{2} = 35cm$

Radius of conical cistern = $14 - 2 = 12cm$

Then, capacity of conical cistern = $\frac{1}{3} \times \pi \times \text{radius}^2 \times \text{height}$



$$\begin{aligned}
 &= \frac{1}{3} \times \frac{22}{7} \times 12 \times 12 \times 35 \\
 &= 5280 \text{ cm}^3 \\
 &= 5.28 \text{ liters}
 \end{aligned}$$

Therefore, total cost of filling the cistern
 $= 5.28 \times 25 = \text{Rs. } 132$

Q71. Text Solution:

From I:

Ratio of heights of $C1$ to $C2 = 75 : 70 = 15 : 14$

And ratio of radius of $C2$ to $C1 = 15 : 14$

This means the ratio of heights of $C1$ to $C2$ is the same as the ratio of radius of $C2$ to $C1$. So, statement I is correct.

From II:

Curved surface area of $C1 = 2 \times \pi \times \text{radius of } C1 \times \text{height of } C1 = 2 \times \pi \times 14 \times 75$

New height $= \left(100 - \frac{p+5}{2}\right) \% \text{ of } 75 = 60$

$$\left(100 - \frac{35 + 5}{2}\right) \% \text{ of } 75 = 60$$

Now, new curved surface area of $C1 = 2 \times \pi \times \text{new radius of } C1 \times \text{new height of } C1 = 2 \times \pi \times \text{new radius of } C1 \times 60$

Now, $2 \times \pi \times 14 \times 75 = 2 \times \pi \times \text{new radius of } C1 \times 60$

New radius of $C1 = 17.5$

Then, increase in radius of $C1 = 17.5 - 14 = 3.5 \text{ cm}$ So, statement II is correct.

From III:

Radius of $C2 = 15$

Height of $C1 = 75$

Then, $\frac{15}{75} = \frac{1}{5}$

This means the radius of $C2$ is one-fifth of the height of $C1$. So, statement III is incorrect.

Q72. Text Solution:

Suppose there were V volunteers at the beginning of January.

Then, number of volunteers at the end of January $= V + 100 - 55 = V + 45$

Number of volunteers at the end of February $= V + 45 + 240 - 120 = V + 165$

Number of volunteers at the end of March

$V + 165 + 150 - 70 = V + 245$

& \text { Given, } V+45: V+245=7: 12 \\

& \rightarrow V=235 \\

\end{aligned} \\

\\

Month	Volunteer s joined	Volunteer s left	Number at the end
Jan	100	55	280
Feb	240	120	400
Mar	150	70	480
Apr		105	
May	150	180	
Jun	N	N + 20	
Jul	175		
Aug	N-50	85	

The number of volunteers at the end of April was 25% more than the number of volunteers at the end of February. This means at the end of April, there were 500 volunteers.

The number increased by 20 from March. Hence, the number of joiners must be 20 more than those who left.

So, 125 people joined in April.

Number of people at the end of May $= 500 + 150 - 180 = 470$

Number of people at the end of June $= 470 + N - (N + 20) = 450$

The number of volunteers at the end of July was the average of the number of volunteers at the end of April and May.

Number of people at the end of July $= 450 + 175 - X = \frac{(500 + 470)}{2}$

The number of volunteers at the end of August was 250 more than the number of volunteers at



the end of January

Number of people at the end of August
 $= 485 + N$

$$\begin{aligned} - 50 - 85 &= 280 + 250 \\ \Rightarrow N &= 180 \end{aligned}$$

The number of volunteers at the beginning of January was 235.

Q73. Text Solution:

The number of volunteers at the end of August was 250 more than the number of volunteers at the end of January

Number of people at the end of August
 $= 485 + N$

$$\begin{aligned} - 50 - 85 &= 280 + 250 \\ \Rightarrow N &= 180 \end{aligned}$$

The value of N is 180

Q74. Text Solution:

Month	Joined	Left	Change
Jan	100	55	45
Feb	240	120	120
Mar	150	70	80
Apr	125	105	20
May	150	180	30
Jun	180	200	20
Jul	175	140	35
Aug	130	85	45

Hence, in all months except February and March, the change was less than 50%.

Q75. Text Solution:

A shopkeeper bought two items A and B together at Rs. $(11X + 50)$ and Rs. $6(2Y + 5)$ respectively.

Cost price of A = Rs. $(11X + 50)$

Cost price of B = Rs. $6(2Y + 5)$

He marked item A at $(X + 30)\%$ above its

cost price and after allowing a discount of Rs. 240, he sold it at $(X - 10)\%$ profit. Then, Marked price of A = $(100 + X + 30)\%$ of $(11X + 50)$

$$\begin{aligned} &\frac{(130 + X)(11X + 50)}{100} \\ &= \frac{11X^2 + 1480X + 6500}{100} \end{aligned}$$

Selling price of A = $\frac{11X^2 + 1480X + 6500}{100} - 240$

Also, selling price of A = $(100 + X - 10)\%$ of

$$\begin{aligned} (11X + 50) &= \frac{(90 + X)(11X + 50)}{100} \\ &= \frac{11X^2 + 1040X + 4500}{100} \end{aligned}$$

Then,

$$\begin{aligned} &\frac{11X^2 + 1480X + 6500}{100} - 240 \\ &= \frac{11X^2 + 1040X + 4500}{100} \end{aligned}$$

$$1480X + 6500 - 24000 = 1040X + 4500$$

$$440X = 22000$$

$$X = 50$$

Then, cost price of A = $11 \times 50 + 50 =$ Rs. 600

Marked price of A = $(100 + X + 30)\%$ of 600 = $(100 + 50 + 30)\%$ of 600 = Rs. 1080

Selling price of A = $1080 - 240 =$ Rs. 840

He marked item B at Rs. $9X$ above its cost price and after allowing a discount of $\left(\frac{Y}{3}\right)\%$, he sold it at a 28% profit.



$$\begin{aligned}
 \text{Marked price of } B &= 9X + 6(2Y + 5) = 9 \\
 &\quad \times 50 + \\
 12Y + 30 &= 12Y + 480 \\
 \text{Selling price of } B &= \left(100 - \frac{Y}{3}\right) \% \text{ of } (12Y \\
 &\quad + 480) \\
 &= \frac{(300 - Y)(4Y + 160)}{100} \\
 &= \frac{48000 - 4Y^2 + 1040Y}{100}
 \end{aligned}$$

$$\begin{aligned}
 \text{Also, selling price of } B &= (100 + 28)\% \text{ of} \\
 (6(2Y + 5)) &= \frac{1536Y + 3840}{100} \\
 \text{Now, } \frac{48000 - 4Y^2 + 1040Y}{100} &= \frac{1536Y + 3840}{100}
 \end{aligned}$$

$$\begin{aligned}
 4Y^2 + 496Y - 44160 &= 0 \\
 Y^2 + 124Y - 11040 &= 0 \\
 Y^2 + 184Y - 60Y - 11040 &= 0 \\
 (Y + 184)(Y - 60) &= 0 \\
 Y = -184 \text{ (not possible), } 60
 \end{aligned}$$

So, $Y = 60$

Cost price of $B = 6(2 \times 60 + 5) = \text{Rs. } 750$

Marked price of $B = 12 \times 60 + 480 = \text{Rs. } 1200$

Selling price of $B = (100 + 28)\% \text{ of } 750 = \text{Rs. } 960$

Marked price of item $A = \text{Rs. } 1080$

$$\frac{Y}{2} = \frac{60}{2} = 30$$

Now, equivalent discount for two successive discounts of 30% each

$$= \left(30 + 30 - 30 \times \frac{30}{100}\right) \% = 51\%$$

So, selling price of item $A = (100 - 51)\% \text{ of } 1080 = \text{Rs. } 529.2$

Cost price of item $A = \text{Rs. } 600$

Therefore, loss $= 600 - 529.2 = \text{Rs. } 70.8$

Q76. Text Solution:

A shopkeeper bought two items A and B to at Rs. $(11X + 50)$ and Rs. $6(2Y + 5)$ respect

Cost price of $A = \text{Rs. } (11X + 50)$

Cost price of $B = \text{Rs. } 6(2Y + 5)$

He marked item A at $(X + 30)\%$ above i price and after allowing a discount of Rs.2 sold it at $(X - 10)\%$ profit. Then, Marked price of $A = (100 + X + 30)\%$ of 50)

$$\begin{aligned}
 &\frac{(130 + X)(11X + 50)}{100} \\
 &= \frac{11X^2 + 1480X + 6500}{100} \\
 &11X^2 + 1480X + 6500
 \end{aligned}$$

Also, selling price of $A = (100 + X - 10)\%$ of

$$\begin{aligned}
 (11X + 50) &= \frac{(90 + X)(11X + 50)}{100} \\
 &= \frac{11X^2 + 1040X + 4500}{100}
 \end{aligned}$$

Then,

$$\begin{aligned}
 &\frac{11X^2 + 1480X + 6500}{100} - 240 \\
 &= \frac{11X^2 + 1040X + 4500}{100} \\
 1480X + 6500 - 24000 &= 1040X + 4500 \\
 440X &= 22000 \\
 X &= 50
 \end{aligned}$$

Then, cost price of $A = 11 \times 50 + 50 = \text{Rs. } 600$

Marked price of $A = (100 + X + 30)\%$ of $600 = (100 + 50 + 30)\%$ of $600 = \text{Rs. } 1080$

Selling price of $A = 1080 - 240 = \text{Rs. } 840$

He marked item B at Rs. $9X$ above its cost price and after allowing a discount of $\left(\frac{Y}{3}\right)\%$, he sold it at a 28% profit.

Marked price of $B = 9X + 6(2Y + 5) = 9 \times 50 +$

$$12Y + 30 = 12Y + 480$$



Selling price of $B = \left(100 - \frac{Y}{3}\right)\%$ of $(12Y + 480)$

$$= \frac{(300 - Y)(4Y + 160)}{100}$$

$$= \frac{48000 - 4Y^2 + 1040Y}{100}$$

Also, selling price of $B = (100 + 28)\%$ of

$$(6(2Y + 5)) = \frac{1536Y + 3840}{100}$$

$$\text{Now, } \frac{48000 - 4Y^2 + 1040Y}{100} = \frac{1536Y + 3840}{100}$$

$$4Y^2 + 496Y - 44160 = 0$$

$$Y^2 + 124Y - 11040 = 0$$

$$Y^2 + 184Y - 60Y - 11040 = 0$$

$$(Y + 184)(Y - 60) = 0$$

$$Y = -184 \text{ (not possible) }, 60$$

$$\text{So, } Y = 60$$

$$\text{Cost price of } B = 6(2 \times 60 + 5) = \text{Rs. } 750$$

$$\text{Marked price of } B = 12 \times 60 + 480$$

$$= \text{Rs. } 1200$$

$$\text{Selling price of } B = (100 + 28)\% \text{ of } 750$$

$$= \text{Rs. } 960$$

$$\text{Cost price of } C = \text{Rs. } Z$$

$$\text{Marked price of } C = (100 + X)\% \text{ of } Z$$

$$= (100 +$$

$$50\% \text{ of } Z = 1.5Z$$

$$\text{Selling price of } C$$

$$= (100 - (Y - 40))\% \text{ of } 1.5Z =$$

$$(100 - (60 - 40))\% \text{ of } 1.5Z = 1.2Z$$

$$\text{Also, selling price} = Z + 80$$

$$\text{So, } Z + 80 = 1.2Z$$

$$0.2Z = 80$$

$$Z = 400$$

Now, from (1):

$$50Y = 50 \times 60 = 300$$

$$Z = 400$$

$$\text{So, } 50Y \neq Z$$

From (2):

$$0.6Z - 4X = 0.6 \times 400 - 4 \times 50 = 40 \neq 20$$

From (3):

$$6Z = 6 \times 400 = 2400$$

$$XY = 50 \times 60 = 3000$$

$$\text{So, } 6Z \neq XY$$

From (4):

$$Z = 400$$

$$8X = 8 \times 50 = 400$$

$$\text{So, } Z = 8X$$

Hence, option (4) is correct.

Q77. Text Solution:

In tabular form:

Store	Number of water bottles sold	
	Monday	Tuesday
A	25	19
B	17	28
C	16	12

On Tuesday from store A:

Total 19 bottles are sold, so, set II will be taken here. The respective ratio of the number of minimum to maximum quantity water bottles sold is 10 : 3. So, there is only one possible case for this:

Number of min. quantity (1.5 lit) bottles sold = 10

Number of max. quantity (5 lit) bottles sold = 3

Then, medium quantity (2 lit) bottles sold

$$= 19 - 10 - 3 = 6$$

Quantity of water sold in 1.5 liter bottles = $10 \times 1.5 = 15$ lit

Quantity of water sold in 2 liter bottles = $6 \times 2 = 12$ lit

Quantity of water sold in 5 lit bottles = $3 \times 5 = 15$ lit

Total quantity of water sold = $15 + 12 + 15 = 42$ lit



On Monday from store A:

Total 25 bottles are sold, so, set II will be taken here. Number of medium quantity bottles sold from store A on Monday and Tuesday are in the ratio

3 : 2 respectively. Then,

Number of medium quantity (2 lit) bottles sold

$$= 6 \times \frac{3}{2} = 9$$

Number of min. quantity (1.5 lit) bottles sold

$$= (25 - 9) \times \frac{3}{4} = 12$$

Number of max. quantity (5 lit) bottles sold

$$= 12 \times \frac{1}{3} = 4$$

Quantity of water sold in 1.5 liter bottles

$$= 12 \times 1.5 = 18 \text{ lit}$$

Quantity of water sold in 2 liter bottles

$$= 9 \times 2 = 18 \text{ lit}$$

Quantity of water sold in 5 lit bottles

$$= 4 \times 5 = 20 \text{ lit}$$

Total quantity of water sold
 $= 18 + 18 + 20 = 56 \text{ lit}$

On Monday from store B:

Total 17 bottles are sold, so, set II will be taken here. Total 20 minimum quantity water bottles are sold from stores A and B together on Monday. Then,

Number of min. quantity (1.5 lit) bottles sold
 $= 20 - 12 = 8$

Number of max. quantity (5 lit) bottles sold

$$= 8 \times \frac{3}{4} = 6$$

Number of medium quantity (2 lit) bottles sold
 $= 17 - 8 - 6 = 3$

Quantity of water sold in 1.5 liter bottles

$$= 8 \times 1.5 = 12 \text{ lit}$$

Quantity of water sold in 2 liter bottles

$$= 3 \times 2 = 6 \text{ lit}$$

Quantity of water sold in 5 lit bottles

$$= 6 \times 5 = 30 \text{ lit}$$

Total quantity of water sold
 $= 12 + 6 + 30 = 48 \text{ lit}$

On Tuesday from store C:

Total 12 bottles are sold, so I will be taken here. 4 liters of water is sold in medium quantity (1 lit) bottles from store C on Tuesday. Then,

Number of min. quantity (0.5 lit) bottles sold
 $= (12 - 4) \times \frac{1}{2} = 4 = \text{Number of max. quantity (5 lit) bottles sold}$

Quantity of water sold in 0.5 liter bottles
 $= 4 \times 0.5 = 2 \text{ lit}$

Quantity of water sold in 1 lit bottles
 $= 4 \times 1 = 4 \text{ lit}$

Quantity of water sold in 10 lit bottles
 $= 4 \times 10 = 40 \text{ lit}$

Total quantity of water sold
 $= 2 + 4 + 40 = 46 \text{ lit}$

On Monday from store C :

Total 16 bottles were sold, so I will be taken here. Total 50 liters water is sold in maximum quantity bottles from store C on Monday and Tuesday together.

Quantity of water sold in 10 lit bottles
 $= 50 - 40 = 10 \text{ lit}$

Number of max. quantity (10 lit) bottles sold

$$\frac{10}{10} = 1$$

Number of min. quantity (0.5 lit) bottles sold
 $= 1 \times 6 = 6$

Number of medium quantity (1 lit) bottles sold



$$= 16 - 1 - 6 = 9$$

Quantity of water sold in 0.5 liter bottles
 $= 6 \times 0.5 = 3$ lit

Quantity of water sold in 1 lit bottles
 $= 9 \times 1 = 9$ lit

Total quantity of water sold $= 3 + 9 + 10 = 22$ lit

On Tuesday from store B:

Total 28 bottles are sold, so I will be taken here

14 liters of water is sold in medium quantity

(lit) bottles from store B on Tuesday. Then,

Number of medium quantity (1 lit) bottles sold

$$= \frac{14}{1} = 14$$

Number of max. quantity (10 lit) bottles sold

$$= (28 - 14) \times \frac{1}{7} = 2$$

Number of min. quantity (0.5 lit) bottles sold

$$= 2 \times 6 = 12$$

Quantity of water sold in 0.5 liter bottles

$$= 12 \times 0.5 = 6 \text{ lit}$$

Quantity of water sold in 10 lit bottles

$$= 2 \times 10 = 20 \text{ lit}$$

Total quantity of water sold

$$= 6 + 14 + 20 = 40 \text{ lit}$$

Store	Number of water bottles sold of different quantities											
	Monday						Tuesday					
	0.5 lit	1 lit	10 lit	1.5 lit	2 lit	5 lit	0.5 lit	1 lit	10 lit	1.5 lit	2 lit	5 lit
A				12	9	4				10	6	3
B				8	3	6	12	14	2			
C	6	9	1				4	4	4			

Store	Quantity of water sold in liters in different quantity bottles													
	Monday							Tuesday						
	Total	0.5 lit	1 lit	10 lit	1.5 lit	2 lit	5 lit	Total	0.5 lit	1 lit	10 lit	1.5 lit	2 lit	5 lit
A	56				18	18	20	42				15	12	15
B	48				12	6	30	40	6	14	20			
C	22	3	9	10				46	2	4	40			

From store B:

On Monday 8 bottles of 1.5 liters are sold and no bottle of 1.5 liters is sold on Tuesday. Then,

Number of 1.5 liters bottles sold on Wednesday
 $= 19 - 8 = 11$

On Wednesday, set II will be taken and so, the total number of bottles sold on Wednesday will be odd. Now,

Number of max. quantity (5 lit) bottles sold on Wednesday $= 15 - 6 - 2 = 7$

Then, minimum and maximum quantity bottles sold on Wednesday $= 11 + 7 = 18$

So, possible values for number of medium quantity (2 lit) bottles sold on Wednesday $= 1, 3$

Now, total quantity of water sold on Wednesday

$$= 7 \times 5 + 1 \times 2 + 11 \times 1.5 = 53.5 \text{ liters}$$

Or, total quantity of water sold on Wednesday $= 7 \times 5 + 3 \times 2 + 11 \times 1.5 = 57.5 \text{ liters}$

Q78. Text Solution:

Total quantity of water sold from store A on Monday and Tuesday together $= 56 + 42 = 98$ liters And, total quantity of water sold from store B and C together on Monday $= 48 + 22 = 70$ liters Then,

$$p\% = \left(\frac{98-70}{70} \right) \times 100 = 40\%$$

$$p = 40$$

Therefore, quantity of water (in liters) is sold from store C on Tuesday $= 46 = p + 6$

Q79. Text Solution:

Here, earnings on quantity of water sold in 2 liters bottles from all stores together on Monday $= 25 \times (9 + 3) = \text{Rs } 300$

And, earnings on quantity of water sold in 0.5 liters bottles from all stores together on Tuesday $= 10 \times (12 + 4) = \text{Rs } 160$

Therefore, difference $= 300 - 160 = \text{Rs. } 140$

Q80. Text Solution:

From statement I:

On Monday from store D:

Number of water bottles sold $= 28 - 16 = 12$



(which is even, so, set I will be taken here.)

Since, the respective ratio of number of minimum

and medium quantity bottles sold from store D or

Monday is 4 : 5, so, only one possible case for this:

Number of min. quantity (0.5 lit) bottles sold = 4

Number of medium quantity (1 lit) bottles sold =

Number of max. quantity bottles sold

$$= 12 - 4 - 5 = 3$$

So, total quantity of water sold

$$= 0.5 \times 4 + 1 \times 5 + 10 \times 3 = 37 \text{ liters}$$

So, this statement alone is sufficient to find the answer.

From statement II:

On Monday from store D:

Number of max. quantity (10 lit) bottles sold = 3

Number of medium quantity (1 lit) bottles sold =

$$2 + 3 = 5$$

Since, number of min. The quantity of bottles sold is not given, so the answer cannot be determined with statement II alone.

From statement III:

Total 5 liters water is sold in 1.5 liters bottles from store C and D on Monday and 30 liters water is sold from store D in maximum quantity bottles.

Since, the amount of water sold in medium quantity bottles is not given, the answer cannot be determined with statement III alone.

Here, answer is obtained with statement I alone, so both statement II and III together are redundant.

Q81. Text Solution:

On day 2:

Let output, operator SMV, manpower, and working hour are a, b, c, and d, respectively.

The difference between the manpower and operator

$$\begin{aligned} \text{SMV} &= 90 \\ \Rightarrow c - b &= 90 \end{aligned}$$

And average of the operator SMV and manpower = 105

$$\text{So, } c + b = 210$$

$$\text{So, } c = 150 \text{ and } b = 60$$

Similarly, calculating operator SMV and manpower of the company on day 1, and day 3

We get, operator SMV on day 1 and day 3 are 80 and 50, respectively. And manpower on day 1 and day 3 are 50 and 100, respectively.

Ratio of output on day 4 to that on day 3 is 3 : 4

Let output on day 3 = $4x$, and output on day 4 = $3x$

Average of outputs on day 2, 3, and 4 together is same as output on day 3

$$\Rightarrow \text{Output on day 2} + 4x + 3x = 4x \times 3$$

$$\Rightarrow \text{Output on day 2} = 12x - 7x = 5x$$

The working hours on day 3 is 1 hour less than that of day 4.

So, working hour on day 4 = y hours and working hours on day 3 = $(y - 1)$ hours

On day 4:

The output per working hour of the company on day 4 is 54.

$$\begin{aligned} \Rightarrow \frac{\text{output}}{\text{working hour}} &= 54 \\ \Rightarrow \frac{3x}{y} &= 54 \\ \Rightarrow x &= 18y \end{aligned}$$

$$\text{Manpower} - \text{operator SMV} = 20$$

Let manpower = $(z + 20)$ and operator SMV = z Day 3:



And the output per working hour of the company on day 3 is 90 .

$$\Rightarrow \frac{\text{output}}{\text{working hour}} = 90$$

$$\Rightarrow \frac{4x}{y-1} = 90$$

$$\Rightarrow 4 \times 18y = 90y - 90$$

$$\Rightarrow 12y = 15y - 15$$

$$\Rightarrow y = 5$$

$$\text{So, } x = 18 \times 5 = 90$$

On day 2 :

$$\frac{\text{output}}{\text{working hour}} = 120$$

$$\Rightarrow \frac{5x}{\text{working hour}} = 120$$

$$\Rightarrow \text{working hour} = \frac{90 \times 5}{120} = 3.75 \text{ hours}$$

Tabulating the above data:

	Manpower	Operator SMV	Output	Working hours	Efficiency percentage
Day 1	50	80		3 hours	
Day 2	150	60	450	3.75 hours	
Day 3	100	50	360	4 hours	
Day 4	(z + 20)	z	270	5 hours	
Day 5				4.5 hours	50%
Day 6					

The efficiency percentage of the garment company on day 4 = 60%

$$270 \times \frac{z}{(z+20) \times 5 \times 60} \times 100 = 60$$

$$\frac{3z}{z+20} = 2$$

$$3z = 2z + 40$$

$$Z = 40$$

So, number of workers worked on day 4 = $z + 20 = 40 + 20 = 60$

Q82. Text Solution:

On day 2:

Let output, operator SMV, manpower, and working hour are a, b, c, and d, respectively.

The difference between the manpower and operator

$$\text{SMV} = 90$$

$$\Rightarrow c - b = 90$$

And average of the operator SMV and manpower = 105

$$\text{So, } c + b = 210$$

$$\text{So, } c = 150 \text{ and } b = 60$$

Similarly, calculating operator SMV and manpower of the company on day 1, and day 3 .

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Let manpower = $(z + 20)$ and operator SMV = z Day 3:



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Day 4	(z + 20)	z	270	5 hours	
Day 5				4.5 hours	50%
Day 6					

The number of garments pieces produced on day 1 (output) = $\frac{20}{100} \times 450 = 90$

Therefore, efficiency percentage

$$= \frac{90 \times 80}{50 \times 3 \times 60} \times 100 = 80$$

Q83. Text Solution:

On day 2:

Let output, operator SMV, manpower, and working hour are a, b, c, and d, respectively.

The difference between the manpower and operator

$$\text{SMV} = 90$$

$$\Rightarrow c - b = 90$$

And average of the operator SMV and manpower = 105

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Day 4	(z + 20)	z	270	5 hours	
Day 5				4.5 hours	50%
Day 6					

The number of workers who worked on day 5 (manpower) = $\frac{120}{100} \times 150 = 180$

The number of garments pieces produced on day 5 (output) = $\frac{100}{75} \times 270 = 360$

Efficiency percentage on day 5 = 50

$$\Rightarrow \frac{360 \times \text{operator SMV}}{180 \times 4.5 \times 60} \times 100 = 50$$

$\Rightarrow$ operator SMV on day

$$5 = \frac{50}{100} \times 180 \times 4.5 \times \frac{60}{360} = 67.5$$

So, required ratio = $67.5 : 50 = 27 : 20$

Q84. Text Solution:

On day 2:

Let output, operator SMV, manpower, and

working hour are a, b, c, and d, respectively.

The difference between the manpower and operator

$$\text{SMV} = 90$$

$$\Rightarrow c - b = 90$$

And average of the operator SMV and manpower = 105

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Day 4	(z + 20)	z	270	5 hours	
Day 5				4.5 hours	50%
Day 6					

The total working hours of the company in six days = $4 \times 6 = 24$ hours

So, working hours of the company on day 6 = $24 - 3 - 3.75 - 4 - 5 - 4.5 = 3.75$ hours

Manpower - operator SMV = 125

Manpower + operator SMV = 275

So, manpower = 200 and operator SMV = 75

$$\text{So, } \frac{\text{output} \times 75}{200 \times 3.75 \times 60} \times 100 = 72$$

$$\Rightarrow \text{output} = 72 \times \frac{1}{75} \times \frac{200 \times 3.75 \times 60}{100} = 432$$

So, number of garment pieces produced on day 6 = 432

Q85 Text Solution:

Let total number of balls in the bag = $24x$

Probability of drawing a blue colour ball = $\left(\frac{5}{24}\right)$

Total blue colour balls = $5x$

Total red and green colour balls = $24x - 5x = 19$

Total red colour balls = $19x \times \left(\frac{9}{19}\right) = 9x$

Total green colour balls = $19x \times \left(\frac{10}{19}\right) = 10x$

From I:

Average of total number of balls of all the three colours-

$$\frac{5x + 9x + 10x}{3} = 8$$

$$24x = 24$$

$$x = 1$$

Total balls in the bag = $24x = 24$

Statement I alone is sufficient.

From II:

Probability that two drawn balls are of green

$$\text{colour} = {}^{10x}C_2 / {}^{24x}C_2 = \frac{15}{92}$$

$$\frac{5x(10x-1)}{12x(24x-1)} = \frac{15}{92}$$

$$23 \times (10x-1) = 9x(24x-1)$$

$$230x - 23 = 216x - 9$$

$$14x = 14$$

$$x = 1$$

Total balls in the bag = $24x = 24$

Statement II alone is sufficient.

From III:

Probability that one ball is drawn and that ball is either red or blue-

$$\left({}^9C_1 + {}^{5x}C_1\right) / {}^{24x}C_1 = \frac{7}{12}$$

$$\frac{9+5}{24} = \frac{7}{12}$$

$$\frac{14}{24} = \frac{7}{12}$$

$$1 = 1$$



Statement III alone is not sufficient.

Q86 Text Solution:

$$p + q + r = 24000$$

From I:

$$15 \times p : 18 \times q = 25 : 18$$

$$p : q = 5 : 3$$

From II:

$$12 \times r : 15 \times p = 16 : 25$$

$$r : p = 4 : 5$$

From III:

$$18 \times q : 12 \times r = 9 : 8$$

$$q : r = 3 : 4$$

From I and II:

$$q = \frac{3p}{5}$$

$$r = \frac{4p}{5}$$

$$p + \left(\frac{3p}{5}\right) + \left(\frac{4p}{5}\right) = 24000$$

$$p = \text{Rs. } 10000$$

$$r = 4 \times \frac{10000}{5} = \text{Rs. } 8000$$

From I and III:

$$p = \frac{5q}{3}$$

$$r = \frac{4q}{3}$$

$$\left(\frac{5q}{3}\right) + q + \left(\frac{4q}{3}\right) = 24000$$

$$q = \text{Rs. } 6000$$

$$r = 4 \times \frac{6000}{3} = \text{Rs. } 8000$$

From II and III:

$$p = \frac{5r}{4}$$

$$q = \frac{3r}{4}$$

$$\left(\frac{5r}{4}\right) + \left(\frac{3r}{4}\right) + r = 24000$$

$$r = \text{Rs. } 8000$$

Hence, the answer can be determined by using any two of the given three statements.

Q87 Text Solution:

- Former world tennis champion and social activist Billie Jean King is one of the most iconic athletes in American history.
- King penned her experience in her autobiography named All In: An Autobiography.

Q88 Text Solution:

- To improve the leadership skills of grassroots women political leaders, the National Commission for Women (NCW) launched a pan-India capacity building programme, 'She is a Changemaker'.

Q89 Text Solution:

- The second organization within the World Bank Group is the International Development Association (IDA), a group that gives interest-free loans to the governments of poor countries.

Q90 Text Solution:

- The financial assistance provided for any specific project shall be subject to a maximum of Rs 8 (eight) crore.
- SFURTI is Scheme of Fund for Regeneration of Traditional Industries.
- Ministry of Micro Small and Medium Enterprises (MSME), Govt. of India has launched this scheme in the year 2005 with the view to promote Cluster development.
- Ministry: Ministry of Micro, Small & Medium Enterprises (MSME)



Q91 Text Solution:

- Comet Leonard swept closest to Earth on December 12, 2021, passing some 21 million miles (34 million km) away.
- Officially known as Comet C/2021 A1 (Leonard).
- Comet Leonard was discovered in January by astronomer Gregory J. Leonard of the Mount Lemmon Infrared Observatory in Arizona.

Q92 Text Solution:

- Australia has scrapped its \$90bn submarine deal with France and entered a new pact with the United States and the United Kingdom to acquire nuclear-powered submarines.
- Australia had planned to acquire 12 new Attack-class submarines under a \$90bn program with France's Naval Group, but Australia's biggest defence acquisition has been plagued by delays, cost blowouts, and disputes over local industry involvement.

Q93 Text Solution:

- The Seventh Schedule of the Constitution of India defines and specifies the allocation of powers and functions between States and the Union.
- The Schedule contains three lists - Union List, State List, and Concurrent List.
- The Union List originally had 97 subjects. Now it has 100 subjects.
- The State List has 61 subjects now, It had 66 subjects initially. State legislatures can make laws on the subjects mentioned in this list.
- The Concurrent List has 52 subjects enumerated under it. Both the State as well as the Central Government can make laws mentioned on this list.

Q94 Text Solution:

- E-commerce giant Amazon, Asian Paints and Tata Tea have been named as the "most

purposeful" brands in India 2021 in tech, non-FMCG and FMCG categories, the latest BrandZ India report by insights and consulting firm Kantar shows.

- In the technology category, Amazon is followed by food delivery platform Zomato, Google-backed YouTube, food delivery platform Swiggy, and Walmart-backed Flipkart.
- In the FMCG category, Tata Tea is followed by Surf Excel, Taj Mahal, Maggi, Parachute, Britannia. In the non-FMCG category, Asian Paints is followed by Jio, Samsung, MRF, Tata Housing and Airtel.
- The Kantar BrandZ database for Most Purposeful Brands of India for 2020-21 cover 418 brand cases.

Q95 Text Solution:

- GM Magnus Carlsen won the 2021 FIDE World Chess Championship after beating GM Ian Nepomniachtchi with the black pieces.
- GM Magnus Carlsen defeated GM Ian Nepomniachtchi in a record 136 moves in game six to score the first win of the 2021 FIDE World Chess Championship.
- The world champion's victory came after five draws in the championship that has a €2 million prize fund

Q96 Text Solution:

- The Ministry of Skill Development and Entrepreneurship launched the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) in 2015 which is administered by the National Skill Development Corporation (NSDC).

Q97 Text Solution:

- INS Khukri, the first of the indigenously built missile corvettes, was decommissioned after 32 years of service at a solemn ceremony held at Visakhapatnam.
- It had the distinction of being part of both the Western and Eastern Fleets.



- The corvette was built by the Mazagaon Dock Shipbuilders and commissioned on August 23, 1989.
- During her service, the ship was commanded by 28 commanding officers and traversed a distance of over 6,44,897 nautical miles.

Q98 Text Solution:

- The government has notified the Rs 10,683-crore Production Linked Incentive (PLI) scheme for textiles, specifically aimed at boosting the production of man-made fibre (MMF) fabric, MMF apparel and technical textiles.
- PLI scheme for Textiles is part of the overall announcement of PLI Schemes for 13 sectors made earlier during the Union Budget 2021-22, with an outlay of Rs. 1.97 lakh crore.
- With the announcement of PLI Schemes for 13 sectors, minimum production in India is expected to be around Rs. 37.5 lakh crore over 5 years and minimum expected employment over 5 years is nearly 1 crore.
- PLI scheme for Textiles will promote production of high value MMF Fabric, Garments and Technical Textiles in country.

Q99 Text Solution:

- The MSME SAMBANDH is the Public Procurement Portal launched by Central Government for the MSME.
- Aim: To monitor the implementation of the Public Procurement from MSEs by Central Public Sector Enterprises

Q100 Text Solution:

- Public Sector Banks Branches: 86,311
- Public Sector Banks ATM: 1,37,113
- Private Sector Banks: 35,791
- Private Sector Banks ATM: 72,394

Q101 Text Solution:

- The RBI Banking Ombudsman Office for Centralized Receipt and Processing Centre

(CRPC) is located in Chandigarh.

- Centralised Receipt and Processing Centre (CRPC) has been set up at RBI, Chandigarh for receiving complaints through physical mode (letter/post).
- The CRPC undertakes initial scrutiny and processing of these complaints, uploads them on CMS, which are then assigned to Offices of RBI Ombudsmen (ORBIOs) or CEPCs for redressal.

Q102 Text Solution:

- Indian architect Balkrishna Doshi has been awarded the Royal Institute of British Architects' Royal Gold Medal for 2022.
- Awarded annually by the Royal Institute of British Architects (RIBA) and personally approved by the Queen, the Royal Gold Medal celebrates those who have shaped the "advancement of architecture".
- Doshi was selected in recognition of his 70-year career and his influence on the direction of architecture in India.

Q103 Text Solution:

- With a sharp jump in the prices of oil, basic metals, and food products, India's wholesale price-based inflation (WPI) climbed to 14.23% in November, the highest level in 12 years.
- The high rate of inflation in November 2021 is primarily due to the rise in prices of mineral oils, basic metals, crude petroleum and natural gas, chemicals and chemical products, food products, etc. as compared to the corresponding month of the previous year.

Q104 Text Solution:

- South African playwright and novelist Damon Galgut won the 2021 Booker Prize for "The Promise", his third shortlisted novel which chronicles a family in his homeland from the late apartheid era through to Jacob Zuma's presidency.



- Spanning several decades, the book shows the family's growing disintegration as the country emerges into democracy.
- Mr. Galgut took the prize on his third time as a finalist, for a book the judges called a **"tour de force."** He was previously shortlisted for **"The Good Doctor"** in 2003 and **"In a Strange Room"** in 2010, but lost both times.

Q105 Text Solution:

- Bharti Airtel ("Airtel"), India's premier communications solutions provider announced the launch of 'Airtel India Startup Innovation Challenge' in partnership with Invest India.
- Under the Startup Innovation Challenge, early-stage technology companies are being invited to demonstrate differentiated solutions in areas such as 5G, Cloud computing, the Internet of Things (IoT), and digital entertainment.
- The winners of the challenge will win Rs 3.5 lakh, first runner-up Rs 2.5 lakh and second start-up Rs 1 lakh. The top 10 start-ups will also be able to leverage Airtel's Digital Innovation Lab for three months.
- Select start-ups will be offered the opportunity to onboard onto the Airtel Startup Accelerator Program. The top 10 will also be given an Airtel Office Internet plan for a year.

Q106 Text Solution:

- India's Harnaaz Sandhu made history as she was crowned Miss Universe 2021 beating contestants from 80 countries.
- The 2021 Miss Universe Event was 70th edition of the beauty contest.
- She won the title 21 years after Lara Dutta won the title in 2000.
- She edged out contestants Paraguay and South Africa to claim the crown.

- Sandhu was presented the crown by Andrea Meza, former Miss Universe 2020 from Mexico at the event which was live-streamed globally.

Q107 Text Solution:

- The correct answer is 5 Lakhs.
- The Reserve Bank of India has increased the limit of IMPS (Immediate Payment Service) transactions to Rs 5 lakh from Rs 2 lakh earlier for the convenience of the consumers.
- Immediate Payment Service is an instant payment inter-bank electronic funds transfer system in India.
- The IMPS of the National Payments Corporation of India (NPCI) is an important payment system providing 24x7 instant domestic funds transfer facility and is accessible through various channels like internet banking, mobile banking apps, bank branches, ATMs, SMS and IVRS. It allows customers to transfer money instantly through banks and RBI authorised Prepaid Payment Instrument Issuers (PPI) across India.

Q108 Text Solution:

- The Reserve Bank of India (RBI) has set up a committee headed by K.V. Kamath on restructuring of loans impacted by the Covid-19 pandemic.
- The Committee is tasked to recommend parameters for one-time restructuring of corporate loans.
- The Committee will formulate sector-specific resolution plans for all accounts with total loan exposure of Rs.1,500 crore and above.
- It will submit its recommendations to RBI in 30 days.
- In the recent Monetary Policy report, RBI has allowed banks to restructure loans to reduce the rising stress on incomes and balance sheets of large corporates, Micro, Small and



Medium Enterprises (MSMEs) as well as individuals.

Q109 Text Solution:

- The World Health Organisation assigns Greek letters to Covid-19 variants.
- Omicron, the name of the new variant, is the 15th letter in the Greek alphabet.
- The first 12 letters have been used to name the previous strains of the virus.
- The WHO skipped 13th and 14th letters - Nu and Xi - when choosing a new name for the recently discovered variant.

Q110 Text Solution:

- State-run Vijaya Bank has been merged with the Bank of Baroda with effect from 1 April 2019.
- All customers will now have access to a total of 8,248 domestic branches and 10,318 ATMs across the country.
- The bank has answered some of customers' queries regarding the amalgamation on its website.
- Another PSU bank Dena Bank also merged with the Bank of Baroda.

Q111 Text Solution:

- Jio Payments Bank, a unit of billionaire Mukesh Ambani-led conglomerate Reliance Industries, has started operations.
- The bank was set up as a joint venture between SBI and Reliance Industries in April 2018.
- The country's largest lender owns 30% of Jio Payments Bank, with Reliance holding the rest.
- SBI infused ₹9.48 crore in the payments bank in its notes to accounts accompanying the March quarter earnings.

Q112 Text Solution:

- The Centre has selected sites in Tamil Nadu, Telangana, Karnataka, Maharashtra,

Gujarat, Madhya Pradesh and Uttar Pradesh to set up new textile parks under the PM Mega Integrated Textile Regions and Apparel (PM MITRA) scheme.

- The parks will be set up by 2026-27. The total outlay for the project is Rs 4,445 crore, though the initial allocation in the 2023-24 Budget is only Rs 200 crore.
- PM MITRA Park will be developed by a Special Purpose Vehicle which will be owned by the Central and State Government and in a Public Private Partnership (PPP) Mode.
- Each MITRA Park will have an incubation centre, common processing house and a common effluent treatment plant and other textile related facilities such as design centres and testing centres.

Q113 Text Solution:

- The National Statistical Office (NSO), Ministry of Statistics and Programme Implementation is releasing in this Press Note the estimates of Gross Domestic Product (GDP) for the second quarter (July-September) of 2022-23 (Q2 2022-23), both at Constant (2011-12) and Current Prices.
- Quarterly and Half-yearly estimates of Gross Value Added (GVA) at Basic Prices by kind of economic activity and Expenditure Components of GDP at Constant (2011-12) and Current Prices for years 2020-21, 2021-22 and 2022-23 are given in Statements 1 to 8.
- Real GDP or GDP at Constant (2011-12) Prices in Q2 2022-23 is estimated at ₹38.17 lakh crore, as against ₹35.89 lakh crore in Q2 2021-22, showing a growth of 6.3 percent as compared to 8.4 percent in Q2 2021-22.
- Nominal GDP or GDP at Current Prices in Q2 2022-23 is estimated at ₹65.31 lakh crore, as against ₹56.20 lakh crore in Q2 2021-22, showing a growth of 16.2 percent as compared to 19.0 percent in Q2 2021-22.



Q114 Text Solution:

- Arvind Krishna is the Chairman and Chief Executive Officer of IBM.
- Pichai Sundararajan, better known as Sundar Pichai, is an Indian-born American business executive. He is the chief executive officer of Alphabet Inc.
- Satya Narayana Nadella is an Indian-American business executive. He is the executive chairman and CEO of Microsoft
- Shantanu Narayen is an Indian-American business executive. He has been the chairman, president, and chief executive officer of Adobe Inc.
- Sanjay Mehrotra is an Indian-American business executive and the CEO of Micron Technology. He was a co-founder of SanDisk, where he served as president and CEO from 2011 until its acquisition by Western Digital in 2016.

Q115 Text Solution:

- 13th edition of the Asia-Europe Meeting (ASEM) Summit was held on November 25 and November 26, 2021 in Phnom Penh, Cambodia.
- In the summit, the Indian delegation was led by Vice President M Venkaiah Naidu.
- The summit is titled as "Strengthening Multilateralism for Shared Growth".
- ASEM is an Asian-European political dialogue forum, that works to enhance relations and several forms of cooperation between its partners.
- It was established on March 1, 1996 at 1st ASEM Summit (ASEM1) in Bangkok, Thailand.
- It was established by the 15 Member States of the EU & European Commission and 7 Member States of the ASEAN, besides individual countries of Japan, China, and South Korea.

Q116 Text Solution:

- MENA (Middle East and North Africa) are the most unequal region in the world and Europe has the lowest inequality levels.
- According to the recently released World Inequality Report 2022, India is now among the most unequal countries in the world.
- The report was released by the World Inequality Lab, which aims to promote research on global inequality dynamics.
- This report presents the most up-to-date synthesis of international research efforts to track global inequalities.

Q117 Text Solution:

- Time Magazine described Musk as a "clown, genius, edgelord, visionary, industrialist, showman"
- Tesla CEO Elon Musk has been named Time Magazine's "person of the year 2021".
- Musk, 50 is also the Founder and Chief Executive of space exploration company SpaceX. He also heads brain-chip start-up Neuralink and infrastructure firm The Boring Company.

Q118 Text Solution:

- The Reserve Bank of India (RBI) has decided to bring non-banking finance companies (NBFCs) under the ambit of the prompt corrective action (PCA) framework.
- Under the framework, NBFCs will face restrictions when certain parameters like non-performing assets, capital adequacy ratio and Tier 1 capital fall below the stipulated levels. Banks are already under the framework.
- The PCA framework for NBFCs will come into effect from October 1, 2022, based on the financial position of NBFCs on or after March 31, 2022.

Q119 Text Solution:

- India's first manned ocean mission 'Samudrayan' was launched by Union



Minister Jitendra Singh and with this the nation joined an elite club of nations having such underwater vehicles for carrying out subsea activities.

- The nation has made huge progress in science and technology and when an Indian goes up into space as part of the Gaganyaan programme.
- India will send its first-ever manned mission into the deep sea in 2024 after sending crewed missions into space in 2023.
- Samudrayan has been undertaken by the National Institute of Ocean Technology (NIOT). It will be a part of the Deep Ocean Mission, which will be implemented at a total budget ₹4,077 crore for five years.
- The preliminary design of the manned submersible MATSYA 6000 under the Samudrayan project, has already been completed.

Q120 Text Solution:

- Zomato-backed online grocery delivery firm Grofers has rebranded as Blinkit to indicate its focus on the quick commerce or 10-minute grocery delivery space.
- The rebranding comes months after the company launched an initiative to deliver groceries in 10 minutes or less.

Q121 Text Solution:

- The Code of Criminal Procedure commonly called **Criminal Procedure Code** (CrPC) is the main legislation on procedure for administration of substantive criminal law in India. It was enacted in 1973 and came into force on 1 April 1974.

Q122 Text Solution:

- The Union Cabinet approved a new Foreign Direct Investment (FDI) policy in the defence sector which allows the FDI through automatic approval to be increased from 49% to 74%.

- Earlier, the defence industry can bring FDI up to 49% under the automatic route, and above it under government route.
- However, the new policy has a 'National Security' clause as a condition which has been proposed by the Ministry of Commerce and Industry.
- As of 2019, the defence industry, along with the aerospace and shipbuilding industry, was estimated to be worth Rs. 80,000 crore, of which the share of Public Sector Units (PSUs) was nearly 80%.

Q123 Text Solution:

- Here, only statements I and III are correct.
- Pradhan Mantri Awaas Yojana-Gramin (PMAY-G) is being implemented by Ministry of Rural development.
- While, Pradhan Mantri Awas Yojana – Urban is being implemented by the Ministry of Housing and Urban Affairs.
- To achieve the objective of "Housing for All" by 2022, the erstwhile rural housing scheme Indira Awaas Yojana (IAY) was restructured to Pradhan Mantri Awaas Yojana-Gramin (PMAY-G) w.e.f 1st April, 2016.
- The cost of unit assistance is shared between Central and State Governments in the ratio 60:40 in plain areas and 90:10 for North Eastern and hilly states.

Q124 Text Solution:

- The Ministry of Skill Development and Entrepreneurship (MSDE) has launched Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0, in a bid to empower India's youth with employable skills by making over 300 skill courses available to them.
- Skill India Mission was launched by the government in 2015 under which the flagship scheme Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is run.



- It aims to train over 40 crore people in India in different skills by 2022. It aims at vocational training and certification of Indian youth for a better livelihood and respect in the society.
- PMKVY 3.0 envisages training of eight lakh candidates over a scheme period of 2020-2021 with an outlay of Rs. 948.90 crore.
- The 729 Pradhan Mantri Kaushal Kendras (PMKKs), empaneled non-PMKK training centres and more than 200 Industrial Training Institutes (ITIs) under Skill India will be rolling out PMKVY 3.0 training to build a robust pool of skilled professionals.

Q125 Text Solution:

- Haiderpur Wetland in Uttar Pradesh has been added as the 47th Ramsar Site in December 2021.
- It is a human-made wetland formed in 1984 and is located within the boundaries of Hastinapur Wildlife Sanctuary.
- Haiderpur Wetland covers an area of 6,908 hectares and is situated on the Muzaffarnagar-Bijnor border in Uttar Pradesh.
- Ramsar is a wetland site designated under the Ramsar Convention, an intergovernmental environmental treaty established in 1971 by UNESCO, which came into force in 1975.
- The convention was held in Ramsar, Iran, and hence the name. The convention facilitates national action plans and brings in international cooperation for the conservation of wetlands, along with wise sustainable use of their resources.

Q126 Text Solution:

- Consumer Confidence Survey is a quarterly survey conducted by the Reserve Bank of India (RBI) to ascertain how confident people are about the economy.

- It indicates how people perceive the economy to be and how, according to them, it will be in the following year, giving insight into the country's economic prospects.
- The survey also reflects consumption patterns of consumers based on how much they spend.
- It is apparent that greater confidence amidst the respondents implies consumers are willing to spend more money and this might lead to positive economic growth.

Q127. Text Solution:

The correct option is (b) because the passage emphasizes how the airport project represents Nepal's aspirations for progress and connectivity, serving as a gateway to the Himalayas and a catalyst for tourism in the region.

Incorrect options:

(a) This option is incorrect because while the project involves Chinese state-owned companies, the focus is more on Nepal's aspirations and challenges rather than solely on China's dominance.

(c) While the project serves as a cautionary tale, it primarily represents Nepal's ambitions for growth rather than solely emphasizing the dangers of international borrowing.

(d) The success of China's Belt and Road Initiative is not the main focus of the passage; instead, it highlights the challenges and concerns associated with the Pokhara airport project.

Q128. Text Solution:

The correct option is (c) as the passage discusses how the investigation highlights global skepticism toward China's overseas infrastructure projects, rather than solely focusing on China's intentions or Nepal's financial management.

Incorrect options:



- (a) The passage does not explicitly discuss China's intention to dominate global infrastructure but rather explores skepticism and concerns arising from such projects.
- (b) While financial concerns are raised, the investigation isn't solely about Nepal's financial mismanagement but rather broader issues related to transparency and accountability in international infrastructure investments.
- (d) The passage doesn't focus on highlighting potential benefits of the Belt and Road Initiative but instead discusses skepticism and cautionary tales associated with such initiatives.

Q129. Text Solution:

The correct option is (b) as the author's tone is analytical and cautionary, discussing the potential pitfalls and challenges associated with international infrastructure collaborations, particularly through the lens of Nepal's Pokhara airport project.

Incorrect options:

- (a) The tone is not outright critical or condemning towards China's initiatives but rather cautious and reflective about international collaborations.
- (c) While the passage acknowledges Nepal's aspirations, it isn't overtly celebratory and maintains a balanced perspective on the complexities of global projects.
- (d) The tone is not indifferent but rather engaged and concerned about the implications of global infrastructure investments.

Q130. Text Solution:

The correct option is (c) as it accurately captures the essence of the passage, emphasizing the challenges and complexities associated with international infrastructure collaboration, particularly highlighted through Nepal's Pokhara airport project.

Incorrect options:

- (a) This option oversimplifies the focus, solely emphasizing China's dominance, whereas the passage explores broader themes beyond this singular aspect.
- (b) While the passage discusses both successes and challenges, the focus is more on the challenges and implications rather than solely on triumphs or failures.
- (d) This option exaggerates the success of the project, which isn't the primary focus of the passage.

Q131. Text Solution:

The correct option is (c) as the passage underscores the necessity for transparent and mutually beneficial agreements in global infrastructure projects, highlighted by the Pokhara airport saga.

Incorrect options:

- (a) The passage doesn't advocate for immediate termination but rather emphasizes the need for transparency and beneficial agreements.
- (b) While Chinese funding is involved, the passage doesn't suggest increased reliance but instead calls for transparent agreements.
- (d) The passage doesn't propose a complete halt but rather emphasizes the need for responsible and sustainable global infrastructure collaboration.

Q132. Text Solution:

The error is the incorrect verb form "underline" which should be "underlining" to maintain proper parallel structure and tense consistency in the sentence. Therefore, the correct option is (c).

- (a) In this intricate waltz, the spotlight shifts to China's: Option (a) is correct and doesn't contain any grammatical or contextual errors. It introduces the subject of the sentence, setting



the context for the focus on China's Belt and Road Initiative.

(b) Belt and Road Initiative, a colossal campaign: Option (b) is also correct. It provides additional information about China's Belt and Road Initiative, describing it as a colossal campaign.

(d) a commitment to economic and diplomatic collaboration: Option (d) is correct. It concludes the sentence by specifying the purpose or objective of China's Belt and Road Initiative, which is a commitment to economic and diplomatic collaboration.

Q133. Text Solution:

(a) of the construction management team

Explanation: This option implies that the wisdom being questioned relates to the abilities or decisions of the construction management team, which is not explicitly mentioned in the sentence. The sentence primarily focuses on the financial issues surrounding the airport's construction rather than solely blaming the management team.

(b) regarding the project's timeline

Explanation: This option suggests that the wisdom being questioned pertains to the project's timeline. However, the sentence emphasizes the financial difficulties rather than specifically discussing issues related to the project's timeline.

(c) within the aviation industry standards

Explanation: This option suggests that the wisdom being questioned relates to adherence to aviation industry standards. However, the sentence emphasizes the financial challenges faced during the construction rather than compliance with industry standards.

(d) towards local community engagement

Explanation: This option implies that the wisdom being questioned concerns the level of engagement with the local community.

However, the sentence primarily focuses on financial challenges and does not directly address community engagement as the main concern.

(e) of heavy reliance on external financing

Explanation: This option is correct because it accurately reflects the wisdom being questioned in the sentence. It addresses the financial quagmire surrounding the airport's construction and raises concerns about the implications of heavy reliance on external financing for such projects.

Q134. Text Solution:

The correct arrangement is (e) EBCDA.

This arrangement makes the sentence more meaningful, emphasizing the importance of transparent and mutually beneficial agreements while highlighting Nepal's airport saga as a pivotal element in understanding the relationship between nations and economic interests.

(a) ACD BE: This arrangement separates the clause "that prompts reflection on the symbiotic relationship between nations" from the rest of the sentence, disrupting the logical flow. The original meaning, which connects the idea of agreements prompting reflection on the relationship between nations, is lost.

(b) BACDE: This arrangement places "That prompts reflection on the symbiotic relationship between nations" at the beginning, which creates an abrupt start to the sentence. It lacks coherence as the introductory phrase should relate directly to the subject, but in this arrangement, it seems disconnected from the rest of the sentence.

(c) DCBEA: This arrangement separates the clause "that prompts reflection on the symbiotic relationship between nations" from the subject it's supposed to modify, creating confusion and



disrupting the intended meaning of the sentence.

(d) CDEBA: This arrangement places "relationship between nations ,the delicate balance" at the beginning, causing the sentence to lack a clear subject or introductory phrase that ties the sentence together. It also separates the clause about transparent, mutually beneficial agreements from its intended context.

Q135 Text Solution:

Sentence (3) is grammatically incorrect.

Explanation:

The error in the statement 3 lies in the use of the modal verb "could" instead of "can." The modal verb "could" implies a possibility or conditional outcome, typically used to express past or future hypothetical scenarios. However, in this context, where the statement discusses achieving the target of becoming a \$5 trillion economy by 2025, the use of "can" is more appropriate.

The correct sentence (3): Our nation can achieve the target of becoming a \$5 trillion economy by 2025 and to achieve this target India must focus on increasing the demand of exports and production.

The modal verb "can" expresses ability or capability in the present tense, indicating a higher level of certainty or potential for achieving the target. By replacing "could" with "can," the sentence becomes grammatically correct and conveys the intended meaning that there is a realistic possibility for the nation to achieve the \$5 trillion economy target by 2025, given the focus on increasing the demand for exports and production.

Sentences (1) and (2) are grammatically and meaningfully correct. Hence the correct option choice is (b).

Q136 Text Solution:

Sentence (2) is grammatically incorrect.

Explanation: The subject 'It' is always used to refer to a singular subject thus, the verb associated with this subject should also be singular to comply with the rule of subject verb agreement. Therefore, 'has' will be the correct usage as a helping verb instead of 'have'.

Sentences (1) and (3) are grammatically and meaningfully correct. Hence, the correct option choice is (d).

The correct sentence (2): It has become a successful analysis and will be considered for analyzing the upcoming projects and balance sheet of the company.

Q137 Text Solution:

Sentences (2) and (3) are grammatically incorrect.

Explanation for sentence (2): 'From' will be used in place of 'in' as preposition 'from' is used after 'prevent, prohibit, abstain, refrain, escape, absent'.

For ex: She prevented him from going to her house.

Explanation for sentence (3): To complement the correct grammatical syntax of the sentence, replace 'collected' with 'collecting' as verb the 'collect' will be used as a gerund in this case.

The correct sentence (2): Escaping from the task of collecting information and data from the annual reports of these companies is not possible for the students.

The correct sentence (3): Collecting the information and data from the annual reports of these companies is an arduous task for the students.



Sentence (1) is grammatically and meaningfully correct. Hence, the correct option choice is (a).

Q138 Text Solution:

Sentence (2) is grammatically incorrect.

Explanation: Replace 'line' with 'lining'. Silver lining means a consoling or hopeful prospect.

Sentence (1) and (3) are grammatically and meaningfully correct. Hence, the correct option choice is (d).

The correct sentence (2): There is always a silver lining between the crisis of these two countries' wars as it gets differentiated with the way these countries dealt with it.

Q139 Text Solution:

The error in the given sentence is the use of the incorrect verb form "contributing" instead of "contribute." "Contributing" is the present participle form of the verb, which is not suitable in this context. The correct form to use is the base form "contribute," which indicates a general statement of fact. The correct phrase should be "degradation of ecosystems," as it accurately expresses that industrial pollution contributes to the decline or deterioration of ecosystems. The preposition "of" is used to indicate the relationship between degradation and ecosystems.

Therefore, option (d) is the correct choice as it maintains the correct verb form, uses the appropriate preposition, and accurately conveys the intended meaning of the sentence.

Hence, the correct option choice is (d).

Let's analyze why the other options are not correct:

(a) "soil contributed to the degradation of ecosystems and increase the risk" - This option uses the past tense "contributed," which does

not align with the present tense of the sentence.

(b) "soil contribute to the degradation in ecosystems and increasing in risk" - This option includes the incorrect preposition "in" before "ecosystems." The correct preposition to use is "of" to indicate that the degradation affects ecosystems. Additionally, the phrase "increasing in risk" is grammatically incorrect.

(c) "soil contribute to the degradation by ecosystems and increased of risk" - This option also uses the incorrect preposition "by" instead of "of" before "ecosystems." Additionally, the phrase "increased of risk" is grammatically incorrect.

Q140 Text Solution:

Option (c) is correct because it uses the correct verb form and preposition. The phrase "ensuring social equity" is the correct form to indicate that the government's taxation policies aim to achieve social equity. The preposition "by" is used correctly to show the means or method by which the government achieves social equity, which is through implementing fair and progressive tax structures. The verb "implement" is not the most appropriate choice in the given context. A more suitable verb would be "implementing" to maintain grammatical consistency with the other verbs in the sentence.

Option (a) is incorrect as the phrase "implement fair and progressive tax" should be changed to "implementing fair and progressive tax" as after preposition 'by', we use the 'ing' form of the verb.



Option (b) is incorrect because of the incorrect use of the preposition 'with'. The correct preposition to be used in this context is "by," which indicates the means or method through which social equity is ensured.

Option (d) contains the error of using the adverbs "fairly" and "progressively" to modify the noun "tax." In this context, the correct adjective forms are "fair and progressive".

Hence, the correct option choice is (c).

Q141 Text Solution:

The error in the highlighted part lies in the use of the verb 'create'. Here, the conjunction 'and' should be preceded and followed by the same form of the verbs i.e. 'leading' and 'creating'. Hence, option (b) is the correct answer as it maintains the rule of parallelism.

Let's analyze each option:

(a) "creation of challenges for central banks and policymakers"- This option does not follow the rule of parallel grammatical construction.

(c) "creating challenges in central banking and policymakers" – Here, the use of the preposition "in" is incorrect and also the term "central banking" is incorrectly used. This option is grammatically incorrect and does not accurately convey the intended meaning.

(d) "creating challenging for central banks and policymakers" – This option changes "challenges" to "challenging" without an appropriate noun form. Hence, this option is incorrect.

Hence, the correct option choice is (b).

Q142. Text Solution:

The sentences (A) to (E) form a coherent paragraph that describes the government's economic policies for the financial year 2023-24. The paragraph begins by stating the broad objectives of these policies, which are to stimulate economic growth, foster innovation, and address pressing social issues (sentence A). It then explains that the government plans to heavily invest in infrastructure development, particularly in sectors like transportation, energy, and telecommunications, with the aim of improving connectivity, reducing logistical bottlenecks, and attracting domestic and foreign investment (sentences B and C). The paragraph further mentions that the government will focus on promoting research and development, providing incentives for technological advancements, and fostering entrepreneurship to enhance productivity, create job opportunities, and spur innovation-driven growth (sentence D and E).

However, sentence (F), which discusses attracting foreign direct investment and promoting international trade through trade agreements and strategic partnerships with global economies, does not flow logically with the rest of the paragraph. It introduces a new topic that is not directly connected to the previous sentences, which mainly focused on domestic infrastructure, innovation, and social welfare. Sentence (F) could be better placed in a separate paragraph that discusses the government's international economic strategies or trade policies. Sentence (G) serves as a continuing statement of sentence (E) by emphasizing the government's commitment to inclusive development as a part of its economic policies. Sentence (E) discusses the measures



aimed at enhancing productivity, creating job opportunities, and spurring innovation-driven growth.

Sentence (G) builds upon this by stating that to ensure inclusive development, the government will implement targeted social welfare programs. It indicates that the government recognizes the importance of addressing social issues and reducing inequalities alongside economic growth. The increased spending on education, healthcare, and poverty alleviation initiatives mentioned in sentence (G) complements the goal of creating job opportunities and enhancing productivity mentioned in sentence (E).

Therefore, excluding the incoherent statement (F), the final sequence of the rearranged paragraph formed is **ECDABG**. Hence, the correct option choice is (b).

Q143. Text Solution:

Option (d) is the continuing statement in this paragraph because it builds upon the previous points about the government's economic policies and aligns with the objective of addressing pressing social issues. It introduces the idea of sustainable development and the allocation of significant resources towards renewable energy projects and environmental conservation efforts.

This continuation is relevant because it emphasizes the government's commitment to long-term environmental sustainability and recognizes the importance of mitigating the effects of climate change.

The other statements are not the continuing statement in this paragraph because they

introduce different aspects of the government's economic policies and objectives.

Option (a) discusses the mitigation of climate change and the promotion of clean energy sources.

Option (b) introduces the development of smart cities and the integration of advanced technologies to enhance urban infrastructure and services. While this is a relevant aspect of the government's plans, it does not directly connect to the discussion of infrastructure development, research and development, and social welfare programs.

Option (c) talks about digital transformation, improving quality of life, and attracting investments in the technology sector. While this is also an important consideration, it introduces a new topic that is not directly related to the government's emphasis on infrastructure development, research and development, and social welfare programs.

Option (e) discusses the government's aim to foster international collaborations, partnerships, trade, knowledge exchange, and positioning the country as a global hub for business and research. While international collaborations are important, this statement introduces a new aspect that is not directly connected to the discussion of infrastructure development, research and development, and social welfare programs.

In contrast, option (d) continues the discussion by expanding on the government's commitment to sustainable development, which aligns with the previous mention of infrastructure development and addresses the pressing social issue of environmental



conservation. It provides a logical and relevant continuation of the government's economic policies. Hence, the correct option choice is (d).

Q144. Text Solution:

Explanation: The sentences (A) to (E) form a coherent paragraph that describes the government's economic policies for the financial year 2023-24. The paragraph begins by stating the broad objectives of these policies, which are to stimulate economic growth, foster innovation, and address pressing social issues (sentence A). It then explains that the government plans to heavily invest in infrastructure development, particularly in sectors like transportation, energy, and telecommunications, with the aim of improving connectivity, reducing logistical bottlenecks, and attracting domestic and foreign investment (sentences B and C). The paragraph further mentions that the government will focus on promoting research and development, providing incentives for technological advancements, and fostering entrepreneurship to enhance productivity, create job opportunities, and spur innovation-driven growth (sentence D and E).

However, sentence (F), which discusses attracting foreign direct investment and promoting international trade through trade agreements and strategic partnerships with global economies, does not flow logically with the rest of the paragraph. It introduces a new topic that is not directly connected to the previous sentences, which mainly focused on domestic infrastructure, innovation, and social welfare. Sentence (F) could be better placed in a separate paragraph that discusses the government's international economic strategies or trade policies. Sentence (G) serves as a continuing statement of sentence (E) by

emphasizing the government's commitment to inclusive development as a part of its economic policies. Sentence (E) discusses the measures aimed at enhancing productivity, creating job opportunities, and spurring innovation-driven growth.

Sentence (G) builds upon this by stating that to ensure inclusive development, the government will implement targeted social welfare programs. It indicates that the government recognizes the importance of addressing social issues and reducing inequalities alongside economic growth. The increased spending on education, healthcare, and poverty alleviation initiatives mentioned in sentence (G) complements the goal of creating job opportunities and enhancing productivity mentioned in sentence (E).

Therefore, excluding the incoherent statement (F), the final sequence of the rearranged paragraph formed is **ECDABG**. Hence, the correct option choice is (d).

Q145. Text Solution:

The sentences (A) to (E) form a coherent paragraph that describes the government's economic policies for the financial year 2023-24. The paragraph begins by stating the broad objectives of these policies, which are to stimulate economic growth, foster innovation, and address pressing social issues (sentence A). It then explains that the government plans to heavily invest in infrastructure development, particularly in sectors like transportation, energy, and telecommunications, with the aim of improving connectivity, reducing logistical bottlenecks, and attracting domestic and foreign investment (sentences B and C). The paragraph further mentions that the government will focus on promoting research



and development, providing incentives for technological advancements, and fostering entrepreneurship to enhance productivity, create job opportunities, and spur innovation-driven growth (sentence D and E).

However, sentence (F), which discusses attracting foreign direct investment and promoting international trade through trade agreements and strategic partnerships with global economies, does not flow logically with the rest of the paragraph. It introduces a new topic that is not directly connected to the previous sentences, which mainly focused on domestic infrastructure, innovation, and social welfare. Sentence (F) could be better placed in a separate paragraph that discusses the government's international economic strategies or trade policies. Sentence (G) serves as a continuing statement of sentence (E) by emphasizing the government's commitment to inclusive development as a part of its economic policies. Sentence (E) discusses the measures aimed at enhancing productivity, creating job opportunities, and spurring innovation-driven growth.

Sentence (G) builds upon this by stating that to ensure inclusive development, the government will implement targeted social welfare programs. It indicates that the government recognizes the importance of addressing social issues and reducing inequalities alongside economic growth. The increased spending on education, healthcare, and poverty alleviation initiatives mentioned in sentence (G) complements the goal of creating job opportunities and enhancing productivity mentioned in sentence (E).

Therefore, excluding the incoherent statement (F), the final sequence of the rearranged

paragraph formed is **ECDABG**. Hence, the correct option choice is (e).

Q146. Text Solution:

The sentences (A) to (E) form a coherent paragraph that describes the government's economic policies for the financial year 2023-24. The paragraph begins by stating the broad objectives of these policies, which are to stimulate economic growth, foster innovation, and address pressing social issues (sentence A). It then explains that the government plans to heavily invest in infrastructure development, particularly in sectors like transportation, energy, and telecommunications, with the aim of improving connectivity, reducing logistical bottlenecks, and attracting domestic and foreign investment (sentences B and C). The paragraph further mentions that the government will focus on promoting research and development, providing incentives for technological advancements, and fostering entrepreneurship to enhance productivity, create job opportunities, and spur innovation-driven growth (sentence D and E).

However, sentence (F), which discusses attracting foreign direct investment and promoting international trade through trade agreements and strategic partnerships with global economies, does not flow logically with the rest of the paragraph. It introduces a new topic that is not directly connected to the previous sentences, which mainly focused on domestic infrastructure, innovation, and social welfare. Sentence (F) could be better placed in a separate paragraph that discusses the government's international economic strategies or trade policies. Sentence (G) serves as a continuing statement of sentence (E) by emphasizing the government's commitment to inclusive development as a part of its economic



policies. Sentence (E) discusses the measures aimed at enhancing productivity, creating job opportunities, and spurring innovation-driven growth.

Sentence (G) builds upon this by stating that to ensure inclusive development, the government will implement targeted social welfare programs. It indicates that the government recognizes the importance of addressing social issues and reducing inequalities alongside economic growth. The increased spending on education, healthcare, and poverty alleviation initiatives mentioned in sentence (G) complements the goal of creating job opportunities and enhancing productivity mentioned in sentence (E).

Therefore, excluding the incoherent statement (F), the final sequence of the rearranged paragraph formed is **ECDABG**. Hence, the correct option choice is (c).

Q147. Text Solution:

According to the statement, India has accomplished a notable achievement through the implementation of its Jan Dhan-Aadhaar-Mobile (JAM) trinity, which has paved the way for the widespread use of digital technology in various aspects of daily life.

The position of the words 'adoption' and 'achieved' is contextually incorrect. The positions of the words (2) and (4) are correct. Upon interchanging 1-3, we get a sentence which is grammatically and contextually meaningful and correct. Hence, the option (d) is the correct answer.

Thus, the correct sentence is:

India has **achieved (1)** a remarkable feat through its Jan Dhan-Aadhaar-Mobile (JAM) **trinity (2)**, setting the stage for digital **adoption (3)** across everyday life, across geographies,

languages, socio-economic **backgrounds (4)**, and age groups

Q148. Text Solution:

'Engagement' is the correct word to fill the blank (B) and both the statements I and II. The context of the sentence of blank (B) states that since government regulation supports digital interaction and RBI encourages technology-led innovation in mainstream finance, banks and NBFCs have shifted to digital lending with fintechs or alone, dramatically boosting the sector.

"Engagement" is the correct word to fill the blank of both the sentences I and II because it signifies active participation and involvement, which aligns with the context of government policies promoting digital involvement and a nonprofit organization encouraging young adults to participate in civic activities. All other words are contextually and grammatically incorrect to fill the blank (B). Hence the correct option choice is (c).

Q149. Text Solution:

As according to the context of the blank, it is stated that government policy supports digital engagement and RBI fosters technology-led innovation in mainstream finance, therefore banks and NBFCs have switched to digital lending with fintechs or alone, increasing the sector. Therefore, the correct word to fill the blank is '**collaboration**'. All other words are contextually and grammatically incorrect to fill the blank (C). Hence, option (d) becomes the most suitable answer choice.

(a) Amalgamation: Merging or combining entities.

(b) Allotment: Distributing shares or portions.

(c) Mitigation: Reducing harm or impact.

(d) Collaboration: Working together cooperatively.

(e) Evolution: Gradual change over time.



Q150. Text Solution:

The context of the sentence states that according to estimates, the digital lending market is projected to reach a value of \$310 billion by the year 2023, with expectations of surpassing \$1.3 trillion by 2030. This projection is based on the observation that around one-third of loan activities currently occur through digital channels. Thus, the correct arrangement is CADB. Hence, option (d) becomes the most suitable answer choice.

The rearranged sentence is:

Estimates point to the digital lending market being worth \$310 billion in 2023 and poised to cross \$1.3 trillion by 2030, as about a third of actual lending happens through digital means.

Q151. Text Solution:

As stated in the sentence that significantly, considering the limited value and brief duration of digital lending, it effectively caters to a substantial volume of clients. The correct suitable word to replace the word 'surprisingly' as underscore in the paragraph is 'importantly'. All other given words are not contextually and grammatically suitable to replace the highlighted word. Hence, option (e) becomes the most suitable answer choice.

Q152. Text Solution:

The context of the sentence states that according to current data provided by the fintech association, it has been observed that during the fiscal year 2023, the members of the association successfully distributed a total of over 10 crore loans. The suitable word to fill the blank (D) is 'disbursed'. All other words are contextually and grammatically incorrect to make the sentence meaningful. Hence the correct option choice is (b).

Q153. Text Solution:

The correct synonym of 'proliferation' is 'escalation'.

The context of the sentence states that the quick expansion of this phenomenon has also presented a multitude of difficulties for consumers, such as unsustainable credit practices, instances of fraud, unsolicited messages, and deceptive schemes that undermine consumer confidence and give rise to regulatory apprehensions.

Hence the correct option choice is (a). All other words are incorrect.

- (a) Escalation: Increase in intensity or severity.
- (b) Diminution: Reduction in size or importance.
- (c) Attenuation: Weakening or thinning out.
- (d) Assessment: Evaluation or appraisal.
- (e) Elaboration: Detailed explanation or expansion.

Q154. Text Solution:

The context of the sentence states that the digital lending business is demonstrating a growing inclination towards adopting a proactive and transparent approach in dealing with these concerns. This includes immediately and satisfactorily resolving consumer complaints within a reasonable timeframe. The correct word to fill the blank is 'grievances'. All other words are contextually and grammatically incorrect to make the sentence meaningful. Hence the correct option choice is (b).

Q155. Text Solution:

The context of the sentence states that digital transformational power requires consumer protection and financial knowledge. India's fintech ecosystem invented products without waiting for regulators. Digital lenders cannot rely on legislation to govern them.



Therefore, the correct phrase is '**for the regulators before they innovated various products**'. Hence the correct option choice is (b).

Q156. Text Solution:

The tone of the passage is both 'informative' and 'suggestive'.

The passage states that in India, the Jan Dhan-Aadhaar-Mobile (JAM) trinity has paved the way for widespread digital adoption, spanning various demographics and backgrounds. Government policies and RBI initiatives have propelled digital lending, resulting in a projected market worth \$310 billion in 2023, with expectations to surpass \$1.3 trillion by 2030. Digital lending, with its small-scale and short-term nature, has reached a vast number of consumers, as evidenced by fintech associations disbursing over 10 crore loans in FY23.

Hence the correct option choice is (e).

Q157 Text Solution:

The correctly matched pair is AE and BD.

AE- The tennis player showed incredible skill and agility on the court, swiftly returning her opponent's powerful serve with a perfectly timed backhand, **but** her opponent managed to counter with a lightning-fast reflex and won the point.

In the given sentence, "but" is used as a connector to contrast two contrasting actions or outcomes. It indicates a shift in the narrative from the positive description of the tennis player's skill and agility to the unexpected outcome where her opponent was able to counter and ultimately win the point. "But" serves to introduce a contrasting element, highlighting the opposing result or action in the sentence.

BD- The government implemented various measures to control inflation, such as tightening monetary policy, increasing interest rates, and implementing stricter fiscal policies, **and** the central bank closely monitored the economic indicators to ensure stability in the financial markets.

In the given sentence, "and" is used as a connector to join multiple actions or elements related to controlling inflation. It serves to indicate that the government implemented a series of measures, including tightening monetary policy, increasing interest rates, and implementing stricter fiscal policies. Additionally, it states that the central bank closely monitored economic indicators. "And" is used to combine these related actions or elements, showcasing a range of steps taken in response to inflation and emphasizing the comprehensive approach adopted by the government and central bank to address the issue.

CF requires no connector; they could form a meaningful sentence without any connector.

Hence, option (e) is correct.

Q158 Text Solution:

The correctly matched pair is AF and CD

AF- The Paris Agreement serves as a vital framework for international cooperation, fostering collaboration **between** nations to address the urgent and complex issue of climate change.

In the given sentence, "between" is used as a connector to establish a relationship or connection between nations. It signifies that the Paris Agreement acts as a platform or mechanism that facilitates collaboration and cooperation among multiple nations. The use of



"between" emphasizes the interaction and engagement of nations in addressing the issue of climate change together. It highlights the idea that the agreement creates a shared space for dialogue, negotiation, and collective action between the participating countries.

CD- The consequences of climate change, such as rising sea levels and extreme weather events, pose significant threats to ecosystems and human communities, **and** urgent action is needed to mitigate these impacts and build resilience.

In the given sentence, "and" is used as a connector to join two related ideas or concepts: the consequences of climate change and the urgent action needed to address them. It signifies the relationship between these ideas, emphasizing that the presence of severe consequences, such as rising sea levels and extreme weather events, necessitates immediate action to mitigate those impacts and build resilience. The use of "and" serves to emphasize the interconnection between the consequences of climate change and the need for proactive measures to address them.

BE requires no connector; they could form a meaningful sentence without any connector. Hence, option (a) is correct.

Q159 Text Solution:

The correctly matched pair is BD and CF.

BD- The pollution levels in the city have decreased significantly in recent years due to stricter regulations and increased awareness, **though** ongoing efforts are still required to achieve sustainable and pollution-free living environments.

In the given sentence, "though" is used as a connector to introduce a contrasting or opposing idea. It signifies that despite the significant decrease in pollution levels in the city due to stricter regulations and increased awareness, there is still a recognition that continued efforts are necessary. The use of "though" acknowledges the progress made in reducing pollution while acknowledging that more work needs to be done to achieve sustainable and pollution-free living environments. It highlights the contrast between the achieved improvements and the ongoing need for further action.

CF- Effective communication skills in English and content writing are crucial for expressing ideas clearly and persuasively, and **at the same time**, they require continuous practice and refinement to master.

In the given sentence, "at the same time" is used as a connector to highlight a simultaneous or concurrent relationship between two related ideas. It signifies that both effective communication skills in English and content writing are important, emphasizing their interconnectedness and mutual dependence. Furthermore, "at the same time" introduces the idea that while these skills are crucial, they also require continuous practice and refinement, emphasizing the ongoing nature of improving and mastering them. The use of "at the same time" serves to emphasize the parallel importance and simultaneous nature of developing both English communication skills and content writing abilities.

AE requires no connector; they could form meaningful sentence without any connector. Hence, option (c) is correct.



Q160 Text Solution:

The correctly matched pair is BD and CE

BD- The pollution in the area has significantly decreased in recent years due to environmental regulations and community initiatives, **though** there are still pockets where air quality remains a concern, necessitating targeted efforts for improvement.

In the given sentence, "though" is used as a connector to introduce a contrasting element or concession. It indicates that despite the significant decrease in pollution in the area, there are still specific pockets where air quality remains a concern. The use of "though" acknowledges the overall improvement in pollution levels but highlights the existence of specific areas that require further attention. It introduces a contrasting idea to emphasize that despite the progress made, there are still specific challenges that need to be addressed for comprehensive improvement in air quality.

CE- The economic policies implemented by the government have led to increased investment and job creation, **because** they prioritize incentivizing businesses, promoting innovation, and reducing bureaucratic hurdles to foster a favorable economic environment.

In the given sentence, "because" is used as a connector to introduce a cause-and-effect relationship or a reason. It signifies that the increased investment and job creation can be attributed to the economic policies implemented by the government. The use of "because" explains that the reason behind these positive outcomes is that the economic policies prioritize incentivizing businesses, promoting innovation, and reducing bureaucratic hurdles. It establishes a logical link, indicating that the favorable economic environment created by the policies directly leads to increased investment and job creation.

AF requires no connector; they could form a meaningful sentence without any connector. Hence, option (e) is correct.

Q161 Text Solution:

'From' will be used in place of 'in' as the preposition 'from' is used after 'prevent, prohibit, abstain, refrain, escape, absent.' Hence, option (b) is the correct choice.

For example- We were prevented from entering that restricted place.

The correct sentence is: His friend escape from the school to complete a task given by the teacher.

