Directions (1-5): Study the following information carefully and answer the given questions:
In a certain code language:-
"grab one kernel new" is written as ' ke si li na'
"one kernel know him" is written as 'na si tu ky'
"one him new grab" is written as 'ke ky li si'

Q1. "kernel" will be coded as?
(a) si
(b) na
(c) li
(d) ke
(e) None of these

Q2. If "Him Powers" will be coded as ''zx ky'' than find the code for ''Grab Powers''?
(a) li zx
(b) ke zx
(c) tu zx
(d) None of these
(e) Either (a) or (b)

Q3. What is the code for "Know him"?
(a) na tu
(b) tu ky
(c) ky si
(d) None of these
(e) Either (a) or (b)

Q4. What may be the code for 'to one him'?
(a) tu ki na
(b) si na tu
(c) si ky ze
(d) ky na si
(e) si ke li

Q5. What is the code for 'grab'?
(a) li
(b) si
(c) ke
(d) Either (a) or (c)
(e) None of these

Direction (6-8): Study the following information carefully and answer the questions given below: In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

Q6. Statements: $K > E = V \geq R = U$
Conclusions: I. $E > U$ **II.** $U = E$

Q7. Statements: $L < H \leq B < P = J$
Conclusions: I. $J > L$ **II.** $H > P$

Q8. Statements: $F > H = W < Q \leq Z < X \geq C$
Conclusions: I. $F > Q$ **II.** $Q > F$

Direction (9-10): Study the following details carefully and answer the questions given below:
A family consists of six members A, B, P, Q, T, and X. T is the brother of Q, who is married with P. A and B are married couple. Q is the daughter of A. T is the uncle of X, who is the Grandson of B.

Q9. How is T related to P?
(a) Brother
(b) Sister-in-law
(c) Mother
(d) Brother-in-law
(e) Sister

Q10. How A is related to P?
(a) Mother
(b) Father
(c) Father-in-law
(d) Mother-in-law
(e) Either (c) or (d)

Directions (11-15): Following questions are based on the five three digit numbers given below.
112 187 489 324 698

Q11. If all the digits in each of the numbers are arranged in descending order within the number then, which of the following number will become the lowest in the new arrangement of numbers?
(a) 112
(b) 489
(c) 187
(d) 324
(e) 698

Q12. If all the numbers are arranged in ascending order from left to right then, which of the following will be the sum of all the three digits of the number which is 2nd from the left of the new arrangement?
(a) 17
(b) 15
(c) 14
(d) 13
(e) 16

Q13. What will be the resultant when third digit of the lowest number is multiplied with the second digit of the highest number?
(a) 14
(b) 16
(c) 18
(d) 26
(e) 22

Q14. If the positions of the second and the third digits of each of the numbers are interchanged then, how many even numbers will be formed?
(a) None
(b) One
(c) Two
(d) Three
(e) Four

Q15. If one is added to the third digit of each of the numbers then, how many numbers thus formed will be divisible by three?
(a) None
(b) One
(c) Two
(d) Three
(e) Four

Direction (16-20): Study all the information carefully and answers the following questions given below:
Eight persons A, B, C, D, E, F, G and H sits in a row. All of them are facing in north but not necessarily in the same order.
C sits third to the right of E. D sits next to C. G sits second to the right of D. As many persons sits between D and G is same as persons sit between E and H. B sits to the left of H, who sits immediate to the right of A.

Q16. Who among the following person sits 3rd to the right of A?
(a) C
(b) G
(c) B
(d) A
(e) D

Q17. How many persons sit between B and F?
(a) 4
(b) 2
(c) 5
(d) 1
(e) 3

Q18. Which of the following person sits at the extreme end?
(a) A
(b) B
(c) D
(d) C
(e) H

Q19. Which of the following pair of persons are immediate neighbors of the persons who sit at the extreme ends?
(a) EF
(b) CG
(c) HC
(d) FB
(e) FC

Q20. What is the position of C with respect to D?
(a) 4th to the left
(b) 3rd to the right
(c) Immediate to the left
(d) 2nd to the right
(e) 5th to the right

Direction (21-25): In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

Q21. Statements: Some Solution is Problem. All Problems are Answer.
Conclusion I: Some answers are Problem.
II: Some solutions are answer.

Q22. Statements: All Soft is Calm. No Hard is soft.
Conclusion I: Some Hard are Calm.
II: No hard is calm.

Q23. Statements: All Amit is Bhaskar. All Bhaskar are Jatin.
Conclusion I: All jatin are Bhaskar.
II: Some Bhaskar is amit.

Q24. Statements: All Kings are Queen. No Queen is Jack.
Conclusion I: All jack are Queen.
II: Some jack being kings is a probability.

Q25. Statements: Some Delhi are Haryana. Some Haryana are Gujarat.
Conclusion I: Some Gujarat is Delhi
II: All Delhi being Haryana is a possibility.

Direction (26-30): Study the following information carefully and answer the questions given below:
Eight people A, B, U, V, W, X, Y and Z are sitting in a circle facing the center but not necessarily in same order. V sits 3rd to the right of W, who faces Y. U sits 2nd to the right of Y. Two people sits between U and B. Z is not an immediate neighbor of Y and B. X does not face to U.

Q26. Who amongst the following person faces to B?
(a) X
(b) U
(c) V
(d) A
(e) None of these

Q27. What is the position of X with respect to A?
(a) Third to the right
(b) Second to the right
(c) Third to the left
(d) Second to the left
(e) Fourth to the right

Q28. How many people are sitting between B and V, when counted to the left of V?
(a) One
(b) Two
(c) Three
(d) Four
(e) None

Q29. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
(a) BA
(b) XU
(c) UY
(d) ZW
(e) VY

Q30. Which one of the following statements is true according to the above mentioned arrangement?
(a) A faces to Z
(b) X faces to B
(c) A and X are immediate neighbors
(d) Both (a) and (c)
(e) None of these

Direction (31-35): Study the following information carefully and answer the questions given below:
There are seven persons i.e. P, Q, R, S, T, U and V were born in different months viz. January, February, March, June, July, August, and November but not necessarily in the same order.
P was born in the month which has less than 30 days. U was born just before of S. Two persons were born between U and P. V was born just before Q. T was born before R.

Q31. Who among the following person was born in June?
(a) V
(b) Q
(c) T
(d) S
(e) None of these

Q32. How many persons were born between Q and R?
(a) 1
(b) 3
(c) 4
(d) 2
(e) None of these

Q33. Who among the following person was born in November?
(a) R
(b) T
(c) V
(d) Q
(e) None of these
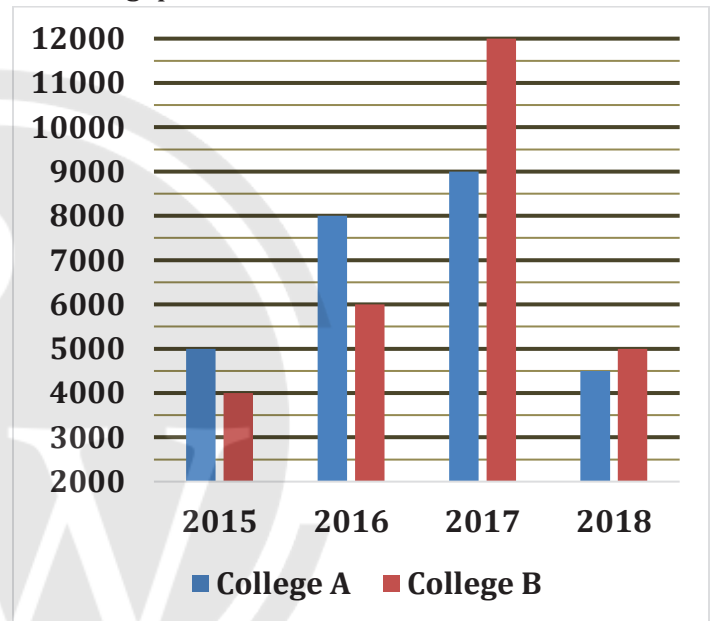
Q34. How many persons were born between V and T?
(a) 1
(b) 3
(c) 4
(d) 2
(e) None of these

Q35. Who among the following person was born in January?
(a) V
(b) Q
(c) U
(d) R
(e) None of these

Directions (36-40): The Bar graph given below shows the no. of students of two colleges in given years.
Study the given graph carefully and answer the following questions.

Q36. What is the average number of students in college A all over the years?
(a) 5300
(b) 5825
(c) 6375
(d) 5000
(e) 6625

Q37. Find the difference between no. of students of college A in 2015 and 2017 together and of college B in 2016 and 2018 together.
(a) 2500
(b) 3000
(c) 4500
(d) 4000
(e) 3500

Q38. Students in college A in 2016 is what percent of the students in college B in 2017?
(a) 33.33%
(b) 25%
(c) 50%
(d) 75%
(e) 66.67%

Q39. What is the ratio between total no. of students in 2016 to that of 2018?
(a) $\frac{28}{19}$
(b) $\frac{17}{19}$
(c) $\frac{27}{19}$
(d) $\frac{25}{19}$
(e) $\frac{21}{19}$

Q40. Students in college A in 2016 and 2017 together is how much percentage more/less than that of college B in 2017 and 2018?
(a) 50%
(b) 25%
(c) 0%
(d) 75%
(e) 100%

Q41. Person A bought a bicycle and sold it to B at a profit of 20%, B sold it to C at a loss of 10%. If C bought the bicycle at Rs 8640 from B, find the cost price of bicycle for person A.
(a) Rs 8600
(b) Rs 9200
(c) Rs 8000
(d) Rs 10400
(e) Rs 7800

Q42. Two unbiased dice are thrown simultaneously. What is the probability of getting the exact sum of 9?
(a) ½
(b) 2/3
(c) ¾
(d) 1/9
(e) 2/5

Q43. A, B and C together can do a piece of work in 6 days. B and C together can do the same piece of work in 9 days. Find in how many days A would complete the work alone?
(a) 18 days
(b) 15 days
(c) 12 days
(d) 21 days
(e) 24 days

Q44. A mixture of two type of rice of 44 Rs/kg and 50 Rs/kg is sold at a profit of 20%. If selling price of mixture is 54 Rs/kg, find the ratio of quantity of both type of rice.
(a) 1 : 4
(b) 2 : 5
(c) 3 : 5
(d) 3 : 4
(e) 1 : 5

Q45. In what time will Rs 10500, at 3% per annum (simple interest), produce the same interest as Rs 6000 does in 2 years at 10% compound interest?
(a) 5 years
(b) 6 years
(c) 3 years
(d) 4 years
(e) 7 years

Directions (46-50): What value should come in place of (?) in the following questions?

Q46. 30% of 240 + $\frac{3}{7} \times 336 \div 12$ = ?
(a) 60
(b) 82
(c) 84
(d) 88
(e) 50

Q47. $7\frac{1}{4} - 3\frac{2}{3} + 4\frac{1}{3} = ? + 6\frac{3}{4}$

(a) $1\frac{1}{6}$

(b) $\frac{6}{7}$

(c) $\frac{3}{4}$

(d) $\frac{14}{13}$

(e) $\frac{13}{14}$

Q48. 20% of 150 + $14\frac{2}{7}$% of 630 = ? + 50

(a) 50
(b) 70
(c) 90
(d) 60
(e) 80

Q49. $\frac{3}{8}$ of 256 ÷ 24 × 4 = ?

(a) 16
(b) 4
(c) 1
(d) 8
(e) 32

Q50. 77.62 + 1.23 + 0.456 = ? + 34.56
(a) 47.446
(b) 46.474
(c) 44.476
(d) 46.746
(e) 44.746

Directions (51-55): What should come in place of question mark (?) in the following number series?

Q51. 1.5, 3, ?, 4, 0.8, 4.8
(a) 0
(b) 1.5
(c) 2
(d) 1
(e) 3.5

Q52. −3, 1, 9, ?, 37, 57
(a) 17
(b) 21
(c) 25
(d) 29
(e) 11

Q53. 4, 1, 0.5, 0.5, 1, 4, ?
(a) 4
(b) 8
(c) 16
(d) 32
(e) 40

Q54. 640, 524, 415, 313, 218, 130, ?
(a) 61
(b) 53
(c) 49
(d) 77
(e) 43

Q55. 2.2, 3.4, 5.8, 9.4, ?, 20.2
(a) 11.6
(b) 15.4
(c) 13.8
(d) 14.2
(e) 16.6

Directions (56-60) : What approximate value should come in the place of the question mark '?' in the following questions ? (You are not expected to calculate the exact value.)

Q56. 34.93% of 30.03% of 49.97% of 6000 = ?
(a) 305
(b) 315
(c) 325
(d) 295
(e) 325

Q57. 4.93 × 12.02 ÷ 7.89 × 4.02 = ?
(a) 25
(b) 28
(c) 30
(d) 35
(e) 40

Q58. $\sqrt{145} + \sqrt[4]{255} + ? = \sqrt{326}$
(a) 2
(b) 12
(c) 8
(d) 26
(e) 6

Q59. $17.04 + 23.96 \div 5.97 = ? + \sqrt{170.8}$

(a) 5
(b) 10
(c) 12
(d) 8
(e) 15

Q60. $((16.02)^2 + (9.99)^2) \div \frac{2}{3} = ? \times 6.11$

(a) 89
(b) 93
(c) 86
(d) 96
(e) 83

Q61. The length of a rectangular garden is 12 metres and its breadth is 5 metres. Find the length of the diagonal of a square garden having the same area as that of the rectangular garden?

(a) $2\sqrt{30}$m
(b) $\sqrt{13}$m
(c) 13 m
(d) $8\sqrt{15}$m
(e) $3\sqrt{30}\ m$

Q62. The difference between present ages of Roshni and Simran is 9 years. After 7 years, Roshni's age is twice of Simran's age. What will be Roshni's age after 4 years?

(a) 18 years
(b) 17 years
(c) 15 years
(d) 13 years
(e) 12 years

Q63. Two persons P and Q enter into a business by investing their sum in the ratio of 7 : 9. After 7 months, Q leaves the business. After eleven month, if total profit is Rs. 2460, what is the profit of Q?

(a) 1107
(b) 1254
(c) 1140
(d) 1127
(e) None of these

Q64. Two trains A and B cross the same platform in 18 and 24 seconds respectively. The respective length of trains A and B is 240 metres and 210 metres and the ratio of their speeds is 3:2. What is the length of platform?

(a) 25 m
(b) 20 m
(c) 30 m
(d) 35 m
(e) None of these

Q65. a, b, c and d are four consecutive numbers, if the sum of 'a' and 'c' is 124, what is the product of 'b' and 'd'?

(a) 4032
(b) 3782
(c) 3906
(d) 3904
(e) 3968

Directions (66-70): The line graph given below shows the no. of employees (in thousand)of 5 different companies viz. Microsoft, Google, Nokia, TATA, Apple in year 2018.
Study the graph carefully and answer the following questions.
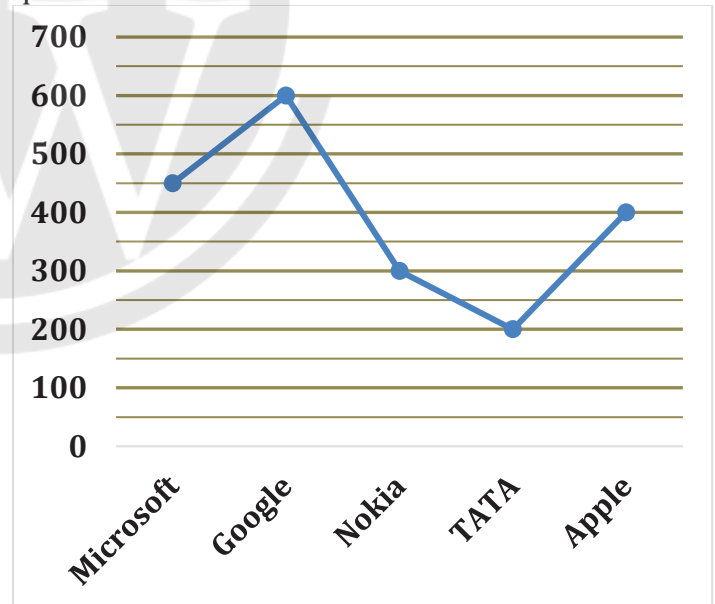
Q66. What is the average no. of employee in all the companies?

(a) 420000
(b) 390000
(c) 520000
(d) 430000
(e) 350000

Q67. What is the ratio between no. of employee in Goggle and TATA together to that of Nokia and Apple together?
(a) 21/10
(b) 15/16
(c) 8/7
(d) 4/3
(e) 13/14

Q68. If number of employees in Reliance is 75% of no. of employees of Microsoft, find the no. of employee of Reliance.
(a) 400000
(b) 375000
(c) 345000
(d) 337500
(e) 427500

Q69. No. of employees in Google is what percentage of no. of employees in Apple?
(a) 150%
(b) 120%
(c) 175%
(d) 125%
(e) 200%

Q70. Number of employees in Microsoft is how much percentage more or less than number of employees of TATA?
(a) 135%
(b) 150%
(c) 55.55%
(d) 75.5%
(e) 125%

Direction (71-78): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

Arjuna was one of the five Pandava brothers of the Mahabharata epic. He was born to Kunti and and king Pandu with the energy of Indra, the leader of the gods. At a very young age he got acclaim for his sincerity and skill in archery. He was known for his steadfastness and single mindedness in **pursuing** his goals. He was instrumental in winning Draupadi in a contest for himself and his brothers as their joint wife. He also married Subhadra the sister of Krishna and Balarama and kept his friendship with them forever. Lord Krishna became his mentor and guide for the rest of his life.

He was known by different names or rather titles, such as Phaalgun, Keerti, Paartha, Savyashachee, Dhanajaya and so on. During his sojourns to faraway places in the subcontinent, he married Chitrangada, daughter of the king of Manipur and Ulupi, a naga princess. Two brave warrior sons were born to him. They were Abhimnyu through Subhadra and Bhabhruvahana through Chitrangada. Both his sons played an important role during the Mahabharata war.

During the exile, when all the Pandava brothers had to leave behind their kingdom and wander in the forests for twelve years as a part of their agreement with the Kauravas, Arjuna had a strange encounter with Lord Siva from whom he got Pasupatha. During the same period he met with Indra and other gods in the heavens from whom he received training and also helped them in return by slaying some asuras. While he was in the heavens he displeased Urvashi, the heavenly nymph, by turning away her advances. She cursed him out of anger to turn into a eunuch for a year in his life as chosen by him.

Apart from archery, he also excelled in the arts of dancing, singing and acting which enormously helped the Pandavas when they had to stay in the court of Virat in total disguise as a part of their agreement with the Kauravas in the thirteenth year of their exile. Arjuna took advantage of the curse he got from Urvashi and turned himself into Brihannala, a eunuch and acted as dance master for the royal household, especially Uttara, the daughter of Virat. At the end of the one year stay, he helped king Virat by fighting a battle with Kauravas who invaded his kingdom Matsya. After realizing that the five people who were working in his court were indeed Pandavas in disguise, king Virat offered to marry his daughter to Abhimanyu the son of Arjuna in return for the services rendered by the brothers, a marriage that proved **crucial** in the post mahabharata period as the son borne out of the wedlock was the only surviving member of the Pandava clan.

He could have been a great king in his own right, but he remained loyal to his elder brother Dharmaraj Yudhishtir who ascended the throne of Hastinapur_____(A)_____ in the family. After the battle of Mahabharata, he assisted his brother greatly in expanding their empire by annexing several outlying kingdoms and defeating warring tribes. Strangely after the passing away of Lord Krishna, he forgot most of his skills as an archer and spent the rest of his life in humility and devotion. Arjuna serves as an example of a great human being, a dutiful householder, a loyal brother, a great warrior, a devout husband and a sincere devotee of God.

Q71. What stopped Arjun to become the great King of Hastinapur?
(a) He wanted to expand their empire after the battle of Mahabharata.
(b) He wished to remain loyal to his eldest brother who has the first right over the throne.
(c) Since he forgot his skills as an archer, he wanted to spend his life in humility and devotion.
(d) He wanted to devote his time in developing his skills in the arts of dancing, singing and acting
(e) None of these

Q72. What helped Arjun to disguise himself as Brihannala to complete his thirteenth year of exile?
(I) The curse of Urvashi that transformed Arjun into a eunuch for a year.
(II) The meeting of Arjun with Lord shiva and Indra during his exile.
(III) Arjun has excellent skills in the arts of dancing, singing and acting.
(a) Only (I)
(b) Only (II)
(c) Only (III)
(d) Both (I) and (III)
(e) All (I) (II) and (III)

Q73. Who among the following is not the wife of Arjun?
(a) Subhadra who was the sister of Lord Krishna and Balarama.
(b) Draupadi whom he won in a context for himself and his brothers.
(c) Uttra who was the daughter of King Virat of Matsya Kingdom.
(d) Chitrangada who was a Naga princess and the daughter of King of Manipur and Ulupi.
(e) None of these

Q74. Which of the following qualities of Arjun are highlighted in the passage?
(I) Conscientious
(II) Combatant
(III) Earnest
(IV) Devotee
(a) Only (I)
(b) Only (II)
(c) Only (I) (II) and (IV)
(d) Both (II) and (IV)
(e) All (I) (II) (III) and (IV)

Q75. Which of the following statement is **FALSE** according to the given passage?
(a) Arjun was born with the energy of Indra, the king of Gods.
(b) Bhabhruvahana was the son of Arjun and Chitrangada.
(c) Arjun pleased the heavenly nymph Urvashi by accepting her advances.
(d) Arjun assisted his elder brother in expanding their empire by annexing several outlaying kingdoms.
(e) Indra and some other gods helped pandavs by providing training and slaying some asuras.

sQ76. Which of the following phrases can fill in the blank **(A)** as highlighted in the passage?
(a) married the queen Draupdi
(b) is the follower of Dronancharya
(c) by virtue of being the eldest
(d) to the worthy of being the modest
(e) None of these

Q77. Which of the following word is most similar to "**PURSUING**" as highlighted in the passage given above?
(a) Calculating
(b) Seeking
(c) Fleeing
(d) Gathering
(e) Assembling

Q78. Choose the word which is opposite to "**CRUCIAL**" as highlighted in the passage given above.
(a) Requisite
(b) Compelling
(c) Critical
(d) Insignificant
(e) Pivotal

Direction (79-86): In each of the questions given below a sentence is given which is then divided into five parts. There may or may not be error in any one part of the sentence .You must choose that part with error as your answer. If all the parts are correct choose (e).

Q79. Five kilometres beyond (a)/ that tree was seen thousands (b)/ of cattle including (c)/ some goats. (d)/ No Error (e).

Q80. The first year (a)/of the child's (b) /life is characterized (c) /in rapid (d)/ physical growth (e)

Q81. A ray of light passing through (a)/ the centre (b) /of a thin lens keep(c)/ its original direction (d)/No error (e).

Q82. The teacher was (a)/ happy when (b) /he entered the (c) /class which comprises (d)/of a hundred students.(e)

Q83. When I shall get back (a)/ I shall pay of the money (b)/ that I borrowed (c)/from you last month (d)/No error

Q84. The old Samiksha who is sitting in that room (a)/ lived here for less than (b)/ a year but she has never created (c)/ any problem. (d)/ No Error. (e)

Q85. When Suresh will find out (A)/ any answer to this question (B)/ he will become able (C)/ to finalise the project (D)/ No Error. (E)

Q86. The secret of Sara's good (a)/ health lies in the fact that (b)/ she is getting up before sunrise (c)/ and has a two-mile walk every morning. (d)/ No Error. (e)

Directions (87-91): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.
(A) Despite this, Ekalavya created a statue of Drona and practised archery before it until he became incredibly skilled.
(B) However, when Drona encountered him and learned of his accomplishments, he was afraid that a tribal boy would surpass his best student, Arjuna.
(C) He demanded that Ekalavya sacrifice his own right thumb as payment for learning under his name.
(D) However, when he asked to become Drona's student, he is refused due to the low status of his birth.
(E) Without questioning Drona, Ekalavya immediately cut off his right thumb and gave it to him, and was unable to become the best archer in the world.
(F) Ekalavya was a young boy living with his tribe deep in the forest. His aim in life was to become the finest archer the world had ever seen.

Q87. Which of the following would be the THIRD sentence after rearrangement?
(a) A
(b) B
(c) C
(d) D
(e) E

Q88. Which of the following would be the SECOND sentence after rearrangement?
(a) A
(b) B
(c) C
(d) D
(e) E

Q89. Which of the following would be the FOURTH sentence after rearrangement?
(a) A
(b) B
(c) C
(d) D
(e) F

Q90. Which of the following would be the SIXTH (LAST) sentence after rearrangement?
(a) A
(b) B
(c) C
(d) F
(e) E

Q91. Which of the following would be the FIRST sentence after rearrangement?
(a) A
(b) F
(c) C
(d) D
(e) E

Directions (92-96): Each question below has one blank, which is indicating that something has been omitted. Find out which option can be used to fill up the blank in the sentence in the same sequence to make it meaningfully complete.

Q92. The higher usage of public transport in Chennai is because local buses in Chennai are more reliable and _____.
(a) Buddhist
(b) Cheaper
(c) Burned
(d) Capital
(e) Carefree

Q93. For hours he did everything to _____ him, but the old man remained impassive.
(a) Close
(b) blaming
(c) provoke
(d) instigating
(e) scolded

Q94. A good _____ story is a battle of wits between author and reader.
(a)Gloss
(b)Repulsion
(c)Account
(d)Mystery
(e)Understanding

Q95. Psychometric methods were used to collect and _____ the information.
(a)analyse
(b)bringing
(c)arrayed
(d)mighty
(e) destroying

Q96. The_____ of his argument was that education should continue throughout life.
(a)remedy
(b)essence
(d) trouble
(d)great
(e) powerful

Direction (97-100): The following questions consist of a sentence. Three words of the sentences are marked in bold, who may or may not be correctly spelled or can be grammatically incorrect. Choose the option which gives the word which is incorrectly spelled or makes the sentence grammatically incorrect. If there is no misspelled or grammatically incorrect word in the sentence then choose (e), i.e., 'No correction required' as your answer. If there is an error in the sentence apart from the given bold words then choose option (d), i.e., none of these.

Q97. Some celestial bodies do not have their own heat and light. They are lit by the light of the stars.
(a) celestial
(b) heat
(c) light
(d) None of these
(e) No correction required

Q98. The majority of the woman teachers are persuading the principal to consider their demands.
(a) woman
(b)persuading
(c)consider
(d) None of these
(e) No correction required

Q99. While the top layer of the Council is infused with fresh talent and is expected to generate new momentum, its representative character is skewed.
(a) infused
(b) representative
(c) skewed
(d) None of these
(e) No correction required

Q100. A Human-made Satellite is an arteficial body. It is deleted by scientists to gather information about the universe and for communication.
(a) arteficial
(b) gather
(c) communication
(d) None of these
(e) No correction required

(Solutions)

Solution (1-5):

Word	Code
grab/new	li/ke
one	si
kernel	na
know	tu
him	ky

S1. Ans.(b)
S2. Ans.(e)
S3. Ans.(b)
S4. Ans.(c)
S5. Ans.(d)

Solution (6-8):

S6. Ans.(c)
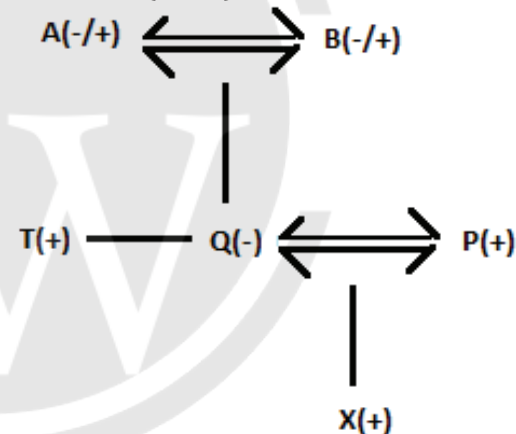**Sol. I.** E > U (False)   **II.** U = E (False)

S7. Ans.(a)
Sol. I. J > L (True)   **II.** H > P (False)

S8. Ans.(d)
Sol. I. F > Q (False)   **II.** Q > F (False)

Solution (9-10)

S9. Ans.(d)
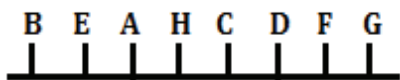**S10. Ans.(e)**

Solutions (11-15):

S11. Ans.(a)

S12. Ans.(e)

S13. Ans.(c)

S14. Ans.(d)

S15. Ans.(b)

Solution (16-20):

B E A H C D F G

S16. Ans.(e)

S17. Ans.(c)

S18. Ans.(b)

S19. Ans.(a)

S20. Ans.(c)

Solution (21-25):

S21. Ans.(e)
Sol.

solution

problems

answer

S22. Ans.(c)
Sol.

soft

calm

hard

S23. Ans.(b)
Sol.

jatin

amit   bhaskar

S24. Ans.(d)
Sol.

queen

jack

kings

S25. Ans.(b)
Sol.

Delhi

Haryana

Gujarat

Solution (26-30):

Y
X
V
U
A
Z
B
W
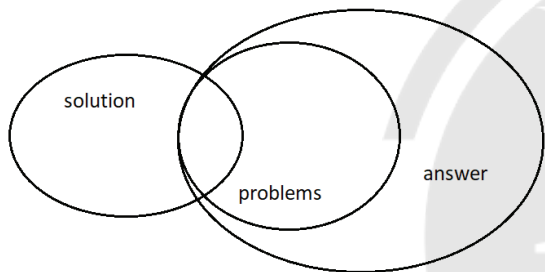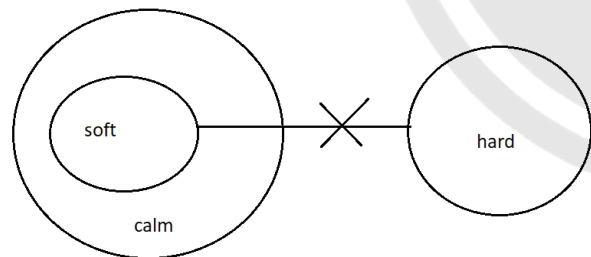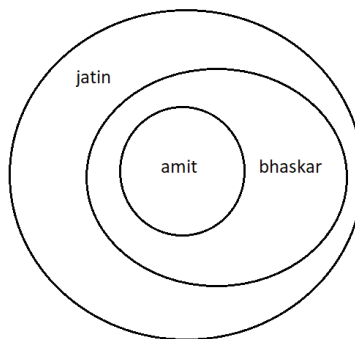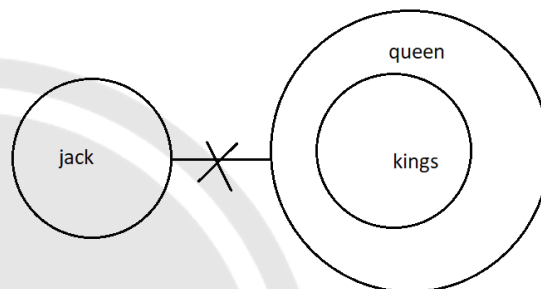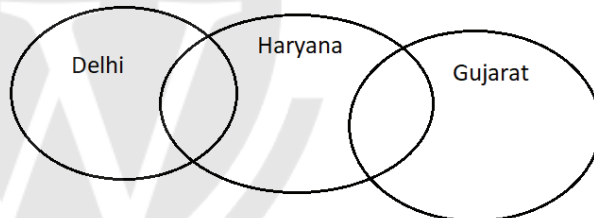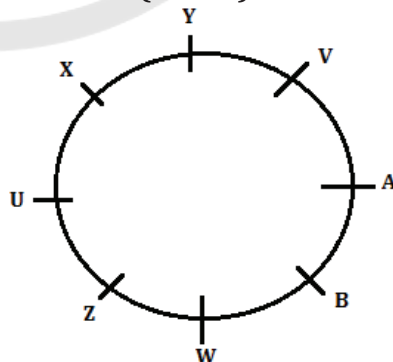
S26. Ans.(a)
S27. Ans.(a)
S28. Ans.(a)
S29. Ans.(c)
S30. Ans.(b)

Solution (31-35):

Months	Persons
January	T
February	P
March	V
June	Q
July	U
August	S
November	R

S31. Ans.(b)
S32. Ans.(d)
S33. Ans.(a)
S34. Ans.(a)
S35. Ans.(e)

Solutions (36-40):

S36. Ans.(e)
Sol. Required average $= \frac{5000+8000+9000+4500}{5}$
$= 6625$

S37. Ans.(b)
Sol. required difference
$= (5000 + 9000) - (6000 + 5000)$
$= 14000 - 11000 = 3000$

S38. Ans.(e)
Sol. required percentage $= \frac{8000}{12000} \times 100$
$= \frac{200}{3}\% = 66.67\%$

S39. Ans.(a)
Sol. required ratio $= \frac{8000+6000}{4500+5000} = \frac{14000}{9500}$
$= \frac{28}{19}$

S40. Ans.(c)
Sol. required percentage
$= \frac{(8000+9000)-(12000+5000)}{(12000+5000)} \times 100$
$= \frac{17000-17000}{17000} \times 100 = 0\%$

S41. Ans.(c)
Sol. let cost price of bicycle for person A be Rs x.
ATQ
$x \times \frac{120}{100} \times \frac{90}{100} = 8640$
$x = 8000$

S42. Ans.(d)
Sol. total chances of getting sum of exact 9 = 4 [i.e. (3,6), (4,5), (5,4), (6,3)]
Required probability $= \frac{4}{36} = \frac{1}{9}$

S43. Ans.(a)
Sol. let total work be 18 units (LCM)
So, efficiency of (A + B + C) = 3 units/day
And efficiency of (B + C) = 2 units/ day
So, efficiency of A =1 unit/day
$\therefore$ required time $= \frac{18}{1} = 18 \; days$

S44. Ans.(e)
Sol. let quantity of both rice be x kg and y kg respectively.
ATQ
$\frac{44x+50y}{x+y} = 54 \times \frac{100}{120}$
$44x + 50y = 45x + 45y$
$x = 5y$
$\frac{y}{x} = \frac{1}{5}$

S45. Ans.(d)
Sol. Let time = t years
According to the question,
$\frac{10500 \times 3 \times t}{100} = 6000 \times [(1 + \frac{10}{100})^2] - 6000$
$\frac{10500 \times 3 \times t}{100} = 7260 - 6000$
$\frac{10500 \times 3 \times t}{100} = 1260$
315t = 1260
t = 4 years
Hence required time = 4 years

S46. Ans.(c)
Sol. $\frac{30}{100} \times 240 + \frac{3}{7} \times 336 \times \frac{1}{12} = ?$
72 + 12 = ?
? = 84

S47. Ans.(a)
Sol. $\frac{29}{4} - \frac{11}{3} + \frac{13}{3} - \frac{27}{4} = ?$
$\frac{2}{4} + \frac{2}{3} = ?$
$? = \frac{7}{6} = 1\frac{1}{6}$

S48. Ans.(b)
Sol. $\frac{20}{100} \times 150 + \frac{100}{700} \times 630 - 50 = ?$
$30 + 90 - 50 = ?$
$? = 70$

S49. Ans.(a)
Sol. $\frac{3}{8} \times 256 \times \frac{1}{24} \times 4 = ?$
$96 \times \frac{1}{24} \times 4 = ?$
$? = 16$

S50. Ans.(e)
Sol. $79.306 - 34.56 = ?$
$? = 44.746$

S51. Ans.(d)
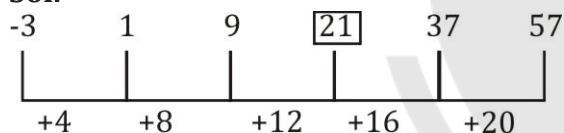**Sol.** The series is
$1.5 \times 2 = 3$
$3 \div 3 = \boxed{1}$
$1 \times 4 = 4$
$4 \div 5 = 0.8$
$0.8 \times 6 = 4.8$

S52. Ans.(b)
Sol.

-3	1	9	$\boxed{21}$	37	57
+4	+8	+12	+16	+20	

S53. Ans.(d)
Sol. The Series is
$4 \times \frac{1}{4} = 1$
$1 \times \frac{1}{2} = 0.5$
$0.5 \times 1 = 0.5$
$0.5 \times 2 = 1$
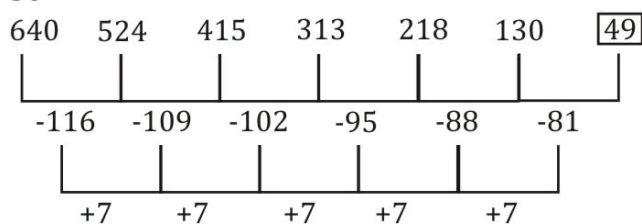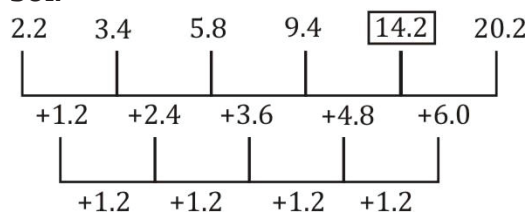$1 \times 4 = 4$
$4 \times 8 = \boxed{32}$

S54. Ans.(c)
Sol.

640	524	415	313	218	130	$\boxed{49}$
-116	-109	-102	-95	-88	-81	
+7	+7	+7	+7	+7		

S55. Ans.(d)
Sol.

2.2	3.4	5.8	9.4	$\boxed{14.2}$	20.2
+1.2	+2.4	+3.6	+4.8	+6.0	
+1.2	+1.2	+1.2	+1.2		

S56. Ans.(b)
Sol. $? \approx \frac{35}{100} \times \frac{30}{100} \times \frac{50}{100} \times 6000$
$? \approx 315$

S57. Ans.(c)
Sol. $? \approx 5 \times \frac{12}{8} \times 4$
$? \approx 30$

S58. Ans.(a)
Sol. $? \approx 18 - 12 - 4$
$? \approx 2$

S59. Ans.(d)
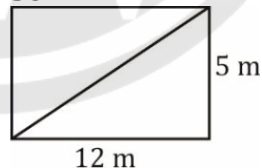**Sol.** $? \approx 17 + \frac{24}{6} - 13$
$? \approx 8$

S60. Ans.(a)
Sol. $? \approx (256 + 100) \times \frac{3}{2} \times \frac{1}{6}$
$? \approx 89$

S61. Ans.(a)
Sol.

Area of rectangular garden = $12 \times 5 = 60$ m^2
∴ Area of square = 60
$(side)^2 = 60$
Side = $\sqrt{60}$
Diagonal of the square = $\sqrt{2}$ side
$= \sqrt{2} \times \sqrt{60} = \sqrt{120} = 2\sqrt{30}$ m

S62. Ans.(c)
Sol. Let Roshni's present age = x years
∴ Simran's present age = x – 9
ATQ,
$x + 7 = 2(x - 9 + 7) \Rightarrow x = 11$ years
∴ Required answer = 11 + 4 = 15 years

S63. Ans.(a)
Sol. (P's profit) : (Q's profit) = 7x × 11 : 9x × 7
= 11 : 9
∴ Q's profit
$$= \frac{9}{20} \times 2460$$
= Rs. 1107

S64. Ans.(c)
Sol. Let length of platform = x metres
$$\therefore \frac{\frac{x+240}{18}}{\frac{x+210}{24}} = \frac{3}{2}$$
$$\Rightarrow \frac{x+240}{x+210} \times \frac{4}{3} = \frac{3}{2}$$
⇒ 9x + 210 × 9 = 8x + 240 × 8
⇒ x = 1920−1890 = 30 m

S65. Ans.(e)
Sol. ∵ a, b, c and d are four consecutive numbers and a + c = 124
∴ a +c = 124 = 61 + 63
∴ b = 62 and d= 64
∴ b × d = 62 × 64 = 3968

S66. Ans.(b)
Sol. required average $= \frac{(450+600+300+200+400) \times 1000}{5}$
= 390000

S67. Ans.(c)
Sol. required ratio $= \frac{(600+200) \times 1000}{(300+400) \times 1000} = \frac{800}{700}$
$= \frac{8}{7}$

S68. Ans.(d)
Sol. Required no. of employees
$= \frac{75}{100} \times 450000 = 337500$

S69. Ans.(a)
Sol. Required percentage $= \frac{600000}{400000} \times 100$
= 150%

S70. Ans.(e)
Sol. required percentage $= \frac{(450-200) \times 1000}{200 \times 1000} \times 100$
= 125%

S71. Ans.(b)
Sol. Arjun was one of the Pandav brothers having the eldest brother Dharamraj Yudhishtir. Therefore, Arjun wanted to remain loyal to his eldest brother who has the first right over the thorne being the eldest son of the family. Refer to the first line of the 5th paragraph "*He could have been a great king in his own right, but he remained loyal to his elder brother Dharmaraj Yudhishtir who ascended the throne of Hastinapur by virtue of being the eldest in the family.*"
All the other options describe the characteristics of Arjun but fail to provide the precise reason. Hence, option (b) is the most suitable answer choice.

S72. Ans.(d)
Sol. In an agreement with Kaurwas, Pandavs accepted an exile of thirteen years i.e. to wander twelve years in forests while in the thirteenth year they had to disguise themselves. Arjun choose to transform himself as Brihannala. Following points helped him to disguise himself
(i) The curse of Urvashi that transformed Arjun into a eunuch for a year.
Refer to the 3rd line of the 4th paragraph "*Arjuna took advantage of the curse he got from Urvashi and turned himself into Brihannala, a eunuch and acted as dance master for the royal household, especially Uttara, the daughter of Virat.*"
(iii) Arjun has excellent skills in the arts of dancing, singing and acting.
Refer to the first line of the 4th paragraph "*Apart from archery, he also excelled in the arts of dancing, singing and acting which enormously helped the Pandavas when they had to stay in the court of Virat in total disguise as a part of their agreement with the Kauravas in the thirteenth year of their exile.*"
Hence, option (d) is the most suitable answer choice.

S73. Ans.(c)
Sol. Subhadra, Chitrangada and Draupdi were the wives of Arjun, however, Uttara was the wife Arjun and Subhadra's son Abhimanyu. Refer to the sixth line of the 4th paragraph "*After realizing that the five people who were working in his court were indeed Pandavas in disguise, king Virat offered to marry his daughter to Abhimanyu the son of Arjuna in return for the services rendered by the brothers*". Hence, option (c) is the most viable answer choice.

S74. Ans.(c)
Sol. Options (I) (II) and (IV) are described in the passage.
Conscientious means wishing to do one's work or duty well and thoroughly.
Combatant means a person or nation engaged in fighting during a war.
Devotee means a person who is very interested in and enthusiastic about someone or something.
Refer to the last line of the passage "*Arjuna serves as an example of a great human being, a dutiful householder, a loyal brother, a great warrior, a devout husband and a sincere devotee of God.*"
However, earnest means resulting from or showing sincere and intense conviction. The passage has not described anywhere regarding the firm beliefs of Arjun. Hence, option (c) is the most suitable answer choice.

S75. Ans.(c)
Sol. All the given statements are true in context of the passage, except for option (c).
For option (a) refer to 2nd line of 1st paragraph "He was born to Kunti and and king Pandu with the energy of Indra, the leader of the gods".
For option (b) refer to the last line of 2nd paragraph "*They were Abhimnyu through Subhadra and Bhabhruvahana through Chitrangada. Both his sons played an important role during the Mahabharata war.*"
For option (d), refer to the 2nd line of the last paragraph "*After the battle of Mahabharata, he assisted his brother greatly in expanding their empire by annexing several outlying kingdoms and defeating warring tribes.*"
For option (e) Refer to the 3rd line of 3rd paragraph "*During the same period he met with Indra and other gods in the heavens from whom he received training and also helped them in return by slaying some asuras.*"
However, option (c) is not true. Refer to the 4th line of 3rd paragraph "*While he was in the heavens he displeased Urvashi, the heavenly nymph, by turning away her advances.*"
Hence, option (c) is the most suitable answer choice.

S76. Ans.(c)
Sol. As per the given line, "*He could have been a great king in his own right, but he remained loyal to his elder brother Yudhishtir*", we know that Yudhishtir became king because he was the eldest. So, option (c) is the best choice whereas all others doesn't fit in the context.

S77. Ans.(b)
Sol. Pursuing means seek to attain or accomplish (a goal) over a long period. **Seeking** means attempt or desire to obtain or achieve (something). Since both the words are synonyms of each other, option (b) is the most suitable answer choice.
Fleeing means run away from a place or situation of danger.
Assembling means s(of people) gather together in one place for a common purpose.

S78. Ans.(d)
Sol. Crucial means decisive or critical, especially in the success or failure of something. **Insignificant** means too small or unimportant to be worth consideration. Since both the words are antonyms of each other, option (d) is the most suitable answer choice.
Requisite means made necessary by particular circumstances or regulations.
Compelling means evoking interest, attention, or admiration in a powerfully irresistible way
Pivotal means of crucial importance in relation to the development or success of something else.

S79. Ans.(b)
Sol. 'were' would be used instead of 'was' in the part (B) because the subject of the verb phrase 'was seen' is 'Five kilometres' which is a plural noun. So, there is an error in the part (B) and option (b) is the correct answer.

S80. Ans.(d)
Sol. Option (d) has an error. 'by' will be used instead of 'in' because in passive voice **by+ Agent** is used.
(i) Ram beat Sita.[Active]
(ii) Sita was beaten by Ram.[Passive]

S81. Ans.(c)
Sol. There is error in part (c) of the sentence. 'keeps' will be used instead of 'keep' because the subject of sentence is 'A ray ' and this is singular.

S82. Ans.(d)
Sol. Instead of comprises, 'comprised' should be used.

S83. Ans.(a)
Sol. 'When I shall get back' will not be used , instead 'when I get back' will be used. Hence there is error in part (a) of the sentence.

S84. Ans.(b)
Sol. Instead of 'lived', 'has lived' or 'has been living' would be used because the tense of the sentence is **present tense** which is evident from the phrases 'is sitting' present in the part (a) and 'has never created' in the part (c).
So, there is an error in the part (b) of the sentence, and option (b) is the correct answer.

S85. Ans.(a)
Sol. Instead of 'Suresh will find' in the part (a), 'Suresh finds' would be used because when in future, two events are mentioned, then **simple present tense** is used in the *conditional clause or subordinate clause* (*the ones which start with when, if, before, after, until etc.*), and **the future tense** is used in the *principal clause*.
So, there is an error in the part (a) of the sentence. Hence, option (a) is the correct answer.

S86. Ans.(c)
Sol. A **present tense** is used to convey '*present habit'*. So, instead of 'she is getting up' in the part (C), 'she gets up' would be used. Hence, there is an error in the part (C) of the sentence and option (c) is the correct answer.

S87. Ans.(a)
Sol. The correct sequence of the sentences to form a coherent paragraph is FDABCE. Hence, option (a) is the most suitable answer choice.

S88. Ans.(d)
Sol. The correct sequence of the sentences to form a coherent paragraph is FDABCE. Hence, option (d) is the most suitable answer choice.

S89. Ans.(b)
Sol. The correct sequence of the sentences to form a coherent paragraph is FDABCE. Hence, option (b) is the most suitable answer choice.

S90. Ans.(e)
Sol. The correct sequence of the sentences to form a coherent paragraph is FDABCE. Hence, option (e) is the most suitable answer choice.

S91. Ans.(b)
Sol. The correct sequence of the sentences to form a coherent paragraph is FDABCE. Hence, option (b) is the most suitable answer choice.

S92. Ans.(b)
Sol. What could be attributed to the higher usage of public transport in Chennai?
Among the given options, 'cheaper' travel on local buses is the most relevant option and is the correct answer.
The options (a), (c), (d) and (e) are completely irrelevant.
Hence, the correct answer is the option (b).

S93. Ans.(c)
Sol. Provoke can be used in the given blank.
Provoke means stimulate or give rise to (a reaction or emotion, typically a strong or unwelcome one) in someone.

S94. Ans.(d)
Sol. Mystery is the most suitable word to be used in the statement. Mystery means something that is difficult or impossible to understand or explain.

Gloss means try to conceal or disguise (something unfavorable) by treating it briefly or representing it misleadingly.

Repulsion means a feeling of intense distaste or disgust.

Account means a report or description of an event or experience.

S95. Ans.(a)
Sol. The appropriate word that can be used here is analyse. This words also fit according to the context of the sentence.

Analyse means examine (something) methodically and in detail, typically in order to explain and interpret it.

S96. Ans.(b)
Sol. The most suitable words to be used in a blank is essence.

Essence means to be the most important thing.

S97. Ans.(e)
Sol. The given sentence is correct.

S98. Ans.(a)
Sol. Use 'women' in place of 'woman' as in compound nouns made of 'man' or 'woman', plural form is used in both the parts. Ex.'men conductors', 'man conductor'.

S99. Ans.(e)
Sol. The given sentence is correct.

S100. Ans.(a)
Sol. The spelling "arteficial" is incorrect. The correct spelling is "artificial".