



Q1. Read the statements and select a conclusion from the given alternatives:

Statements:

All Apples are leaves. Some leaves are lemons. No lemon is house.

Conclusions:

- I. Some houses are Apples
- II. Some lemons are Apples
- III. No house is Apple
- (a) Only I follow
- (b) Only II follows
- (c) Only III follows
- (d) either I or III follows

Q2. In a certain code, TRIPLE is written as SQHOKD. How is EXOTIC coded in that code?

- (a) DWNHSB
- (b) DNWHSB
- (c) DWNSHB
- (d) DNWSHB

Q3. X-rays, which are now used on a day to day basis for diagnosis in medicine, was discovered by?

- (a) Wilhelm Rontgen
- (b) Niels Bohr
- (c) Ernest Rutherford
- (d) Max Bon

Q4. Which company has been associated with the development of Post-It and Scotch Tape?

- (a) Johnson and Johnson
- (b) 3M
- (c) Unilever
- (d) Amazon

Q5. Simplify  $5x(x+2)+4x$ .

- (a)  $5x^2+10$
- (b)  $9x+10$
- (c)  $5x^2-14x$
- (d)  $5x^2+14x$

Q6. In a computer, what is the name of the high speed memory used:

- (a) Cache
- (b) RAM
- (c) BIOS
- (d) Hard Disk

Q7. A shopkeeper cheats to the extent of 11% while buying and selling fruits, by using tampered weights. His total gain in percentage is.

- (a) 23.25
- (b) 23.21
- (c) 23.75
- (d) 23.5

Q8. The cash difference between the selling price of an article at a profit of 2% and 18% is Rs3. The ratio of two selling prices is.

- (a) 51:59
- (b) 51:53
- (c) 51:60
- (d) 55:59

Q9. The value of  $0.592 \div 0.8 = ?$

- (a) 7.4
- (b) 0.74
- (c) 740
- (d) 0.074

Q10. Laura was going with a boy and is asked by a woman about the relationship between them. Laura replied, "My maternal uncle and the uncle of his maternal uncle is the same". How is Laura related with that boy?

- (a) Mother and Son
- (b) Aunt and Nephew
- (c) Grandmother and Grandson
- (d) Cannot be determined

Q11. Computer of  $69696 \times 9999 = ?$

- (a) 696980304
- (b) 666890304
- (c) 696809304
- (d) 696890304

Q12. In a certain code, RIPPLE is written as 613382, PREACH is coded as 362457 How is PILLER written in that code?

- (a) 318826
- (b) 318286
- (c) 618826
- (d) 338816

Q13. A flask has two holes. The 1<sup>st</sup> hole alone makes the flask empty in 9 minutes and 2<sup>nd</sup> hole alone makes the flask empty in 16 minutes. If water leaks out at a constant rate, how long in minutes does it takes if both the holes together empty the flask?

- (a)  $\frac{19}{25}$
- (b)  $4\frac{19}{25}$
- (c)  $5\frac{20}{25}$
- (d)  $5\frac{19}{25}$

Q14. Who was appointed as the head of the Jury of the International Film Festival of Indian in November 2015?

- (a) Anil Kappor
- (b) Shekhar Kapoor
- (c) Anupam Kher
- (d) Naseeruddin Shah

Q15. Which of the following is a tsunami warning sign?

- (a) Stormy weather
- (b) Hailstorm
- (c) Water falling back quickly from the beach.
- (d) Pets acting strangely

Q16. Answer the questions based on the below information. If '+' is 'x', '-' is '+', 'x' is '÷' and '÷' is '-'. Then  $6+7 \times 3-8 \div 20=?$

- (a) -3
- (b) 7
- (c) 2
- (d) 1

Q17. The most abundant of the rare gases is?

- (a) Helium
- (b) Argon
- (c) Neon
- (d) Nitrogen

Q18. Read the statements and select a conclusion from the given alternatives.:

Statement:

Sukhvinder emphasized the need to replace the present training programme by other methods which will bring out the real merit of the candidates.

Conclusions:

- I. It is not important to bring out the real merit of the candidates.
  - II. The present training programme does not bring out the real merit of the candidates
- (a) Only conclusion I follows.
  - (b) Only conclusion II follows.
  - (c) Both I and II follow.
  - (d) Neither I nor II follows.

Q19. The variance of a set of data is 196. Then the standard deviation of the data is.

- (a)  $\pm 14$
- (b) 14
- (c) 96
- (d) 98

Q20. The Indian National Army reclaimed the Andaman and Nicobar Island from British rule and named them?

- (a) Swaraj Islands
- (b) Shaheed and Swaraj Island
- (c) Free Islands
- (d) Swatantra and Swaraj Island

Q21. Compute  $4923 \div 547 - 10$ .

- (a) 1
- (b) -1
- (c)  $\frac{1641}{179}$
- (d)  $\frac{1614}{179}$

Q22. A protruding part of the throat that is responsible for growing voice box in boys is called?

- (a) Larynx
- (b) Testosterone
- (c) Pharynx
- (d) Adam's Apple

Q23. Which country is going to organize the FIFA U-17 World cup in the year 2017?

- (a) Chile
- (b) Nigeria
- (c) UAE
- (d) India

Q24. The mean of the data  $1, \frac{1}{2}, \frac{1}{2}, \frac{3}{4}, \frac{1}{4}, 2, \frac{1}{2}, \frac{1}{4}, \frac{3}{4}$  is.

- (a)  $\frac{15}{18}$
- (b)  $\frac{13}{18}$
- (c)  $\frac{7}{9}$
- (d)  $\frac{8}{9}$

Q25. Variance of the data 2, 4, 5, 6, 8, 17 is 23.33. Then the variance of 4, 8, 10, 12, 16, 34 will be:

- (a) 11.66
- (b) 46.66
- (c) 93.3333
- (d) 4.83

Q26. Mr. Mahesh sold a bus for Rs. 22,100 with a loss of 15%. At what price should the bus be sold to get a profit of 15%?

- (a) 29,700
- (b) 30,000
- (c) 29,800
- (d) 29,900

Q27. Read the statements and select a conclusion from the given alternatives:

Statements:

All pens are pencils. Some pencils are erasers. Some erasers are ropes. All ropes are tents

Conclusions:

- I. Some tents are trams
- II. Some ropes are pens
- III. Some erasers are pens
- IV. Some pencils are pens.

- (a) Only I and II follow
- (b) Only I, II and III follow
- (c) Only I and III follow
- (d) Only IV follows

Q28. Which is the correct ascending order of the given numbers?

- (a)  $\frac{2}{3}, \frac{5}{6}, \frac{3}{4}$
- (b)  $\frac{3}{4}, \frac{2}{3}, \frac{5}{6}$
- (c)  $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}$
- (d)  $\frac{5}{6}, \frac{3}{4}, \frac{2}{3}$

Q29. If  $\tan A = \frac{15}{8}$  and  $\tan B = \frac{7}{24}$ , then  $\cos(A + B) = ?$

- (a)  $\frac{87}{425}$
- (b)  $\frac{304}{425}$
- (c)  $\frac{297}{425}$
- (d)  $\frac{416}{425}$

Q30. Which country among the following voted in 2015 to be the first country to allow three parent in-vitro fertilization?

- (a) Britain
- (b) USA
- (c) France
- (d) Italy

Q31. The basic concept of Montessori education is:

- (a) Discovery by travelling
- (b) Dreaming
- (c) Communicating
- (d) Self-discovery through experiment

Q32. The term polyarchy was used by Robert Dahl to describe a form of government in which?

- (a) It reduces the multitudinous difference of opinion to relatively simple alternatives
- (b) It takes individual as the basic unit of democratic model
- (c) People can participate through their representations
- (d) People act both through the electoral system and the group process

Q33.  $(8)^{2/3} = ?$

- (a)  $\sqrt{4}$
- (b) 2
- (c) 4
- (d) 64

Q34. Ms. Kavitha borrowed Rs. 950 at 6% per annum simple interest. What amount will she pay to clear her debt after 4 years?

- (a) 282
- (b) 1187
- (c) 1178
- (d) 228

Q35. Divide Rs. 368 in the ratio 1:5:8:9. The rupees in the respective ratios are given by.

- (a) 16, 80, 127 & 145
- (b) 16, 80, 129 & 143
- (c) 16, 80, 128 & 144
- (d) 16, 80, 128, & 143

Q36. Which of the following is a probe to the Kuiper belt bodies?

- (a) Voyager 1
- (b) Van Allen Probe
- (c) New Horizon
- (d) Pioneer 11

Q37. Dried fruit like raisins when soaked in water, bulge and get filled with water. What is the scientific reason that explains this daily life even?

- (a) Osmosis
- (b) Active Transport
- (c) Diffusion
- (d) Passive Transport

Q38. India participated in the 2014 Commonwealth Games at \_\_\_\_\_.

- (a) Gold Coast, Australia
- (b) New Delhi, India
- (c) Samoa, Pacific Island
- (d) Glasgow, United Kingdom

Q39. The order of rotational symmetry of a rectangle is.

- (a) 1
- (b) 4
- (c) 2
- (d) 0

Q40. If the product of two numbers is 2400 and their LCM is 96 then their HCF is.

- (a) 35
- (b) 240
- (c) 24
- (d) 25

Q41. Josna takes 4 hrs 30 minutes in walking a distance and riding back to same place where she started. She could walk both ways in 5 hr. 40 minutes. The time taken by her to ride back both way is.

- (a) 3 hr. 20 min
- (b) 3 hr. 35 min
- (c) 3 hr. 45 min
- (d) 3 hr. 15 min

Q42. Birth control pills contain

- (a) Progesterone only
- (b) Estrogen only
- (c) Mixture of progesterone and estrogen derivative
- (d) Neither progesterone nor estrogen

Q43. Two cycles start from a house with a speed of 24 km/hr. at interval of 15 minutes. With how much more speed (km/hr.) the woman coming from the opposite direction towards the house has to travel to meet the cycles at an interval of 10 minutes?

- (a) 13
- (b) 11
- (c) 12
- (d) 14

Q44. Harappan people did not worship one of the following God-

- (a) Shiva
- (b) Vishnu
- (c) Pigeon
- (d) Swastik

Q45. The theory behind stars twinkling is that

- (a) The refractive index of the different layers of earth's atmosphere changes continuously; consequently the position of the star's image changes with time.
- (b) The intensity of light emitted by them changes with time.
- (c) The light from the star is scattered by the dust particles and air molecules in the earth's atmosphere
- (d) The distance of the stars from the earth changes with time

Q46. Complete the Figure X from the given alternatives 1, 2, 3, 4



(X)



(1)



(2)



(3)



(4)

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q47. Who was awarded the 'Harvard Humanitarian Award' for 2015?

- (a) Malala Yousafzai
- (b) Kailash Satyarthi
- (c) Tommy Hilfiger
- (d) Lionel Richie

Direction (48 -50): Read the data given and answer the following questions:

In a class of 60 students:

42 like Maths,

32 like English,

12 like neither Maths nor English.

Q48. Students who like only Maths forms what percentage of the total number of students in the class?

- (a) 26.67 %
- (b) 24.22 %
- (c) 28.80 %
- (d) 32.82 %

Q49. How many students like both Maths and English?

- (a) 28
- (b) 26
- (c) 16
- (d) 12

Q50. How many students like exactly one subject?

- (a) 16
- (b) 12
- (c) 6
- (d) 22

Q51. The famous Golconda Fort is situated in the state of:

- (a) Madhya Pradesh
- (b) Telangana
- (c) Karnataka
- (d) Bihar

Q52. If  $\sin x = \frac{4}{5}$ , then  $\sec^2 x - 1 = ?$

- (a)  $\frac{16}{25}$
- (b)  $\frac{25}{9}$
- (c)  $\frac{9}{16}$
- (d)  $\frac{16}{9}$

Q53. If the letters in PRABA are coded as 27595, and HITAL are coded as 68354, how can BHARATHI be coded?

- (a) 37536689
- (b) 57686535
- (c) 96575368
- (d) 96855368

Q54. Find the HCF of 1757, 2259.

- (a) 231
- (b) 241
- (c) 251
- (d) 261

Q55. Which country in the month of November 2015 was ranked No. 1 men's team for the first time in FIFA rankings?

- (a) Nigeria
- (b) Belgium
- (c) Russia
- (d) Portugal



Q56. Given  $w = -2$ ,  $x = 3$ ,  $y = 0$  &  $z = -\frac{1}{2}$ , find the value of  $w^2\sqrt{(z^2 + y^2)}$ .

- (a)  $\pm 2$
- (b)  $-2$
- (c)  $2$
- (d)  $4$

Q57. Ram said, "This girl is the wife of the grandson of my mother". Who is Ram to the girl?

- (a) Husband
- (b) Father
- (c) Father-in-law
- (d) Grandfather

Q58. Which is the oldest High Court in India?

- (a) Bombay High Court
- (b) Madras High Court
- (c) Allahabad High Court
- (d) Calcutta high Court

Q59. \_\_\_\_\_ is the transition of a substance directly from the solid to the gas phase without passing through the intermediate liquid phase.

- (a) Sublimation
- (b) Evaporation
- (c) Condensation
- (d) Liquidation

Q60. Solve:  $x - 3 = 3x + 7$ .

- (a)  $5$
- (b)  $-5$
- (c)  $1$
- (d)  $\frac{10}{4}$

Q61. Who was the first Muslim female to higher judiciary?

- (a) Justice M. Fathima Beevi
- (b) Justice V. Khalida
- (c) Justice Benazie Islam
- (d) Justice M Farooq

Q62. Vernal Equinox occurs on,

- (a) June 22
- (b) March 20
- (c) May 20
- (d) June 20

Q63. Compute  $33800 / 520 / 5$ .

- (a)  $31$
- (b)  $325$
- (c)  $13$
- (d)  $352$

Q64. In which direction does the tail of a comet point toward?

- (a) Away from the sun
- (b) Towards the sun
- (c) Away from earth
- (d) Towards the earth

Q65. What title did the British confer Gandhi with, which was relinquished by him?

- (a) Rai Bahadur
- (b) Rai Sahib
- (c) Hind Kesari
- (d) Kaiser-e-Hind

Q66. Read the statements given below and derive the conclusion.

Statements:

No window is monkey.

All the monkeys are cats.

Conclusions:

- 1. No window is cat.
- 2. No cat is window.
- 3. Some cats are monkeys.

Q4. All the cats are monkeys.

- (a) Only (2) and (4)
- (b) Only (1) and (3)
- (c) Only (3) and (4)
- (d) Only (3)

Q67. Complete the Figure X from the given alternatives 1, 2, 3, 4



(X)



(1)



(2)



(3)



(4)

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q68. Answer the questions based on the below information. If '+' is 'x', '-' is '+', 'x' is '÷' and '÷' is '-'. Then  $6 - 9 + 8 \times 3 \div 20 = ?$

- (a) -2
- (b) 6
- (c) 10
- (d) 12

Q69. One of the best preserved Buddhist caves, Karla, is in which of the following states?

- (a) Bihar
- (b) Uttar Pradesh
- (c) Maharashtra
- (d) Uttarakhand

Q70. While watching 3D movies at the theatre, we have to wear special glasses because?

- (a) The glasses allow our left and right eyes to see different images
- (b) 3-D movies use special colors which cannot be sensed by the human eye
- (c) 3-D movies are brighter than ordinary movies and can hurt our eyes if seen directly
- (d) The glasses allow both the eyes to see similar images

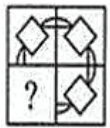
Q71. Which river originates from Amarkantak?

- (a) Betwa
- (b) Chambal
- (c) Mahanadi
- (d) Narmada

Q72. Who has the distinction of serving as the Chief Justice of India, President and the Vice president?

- (a) Justice M Hidayatullah
- (b) Justice Bhagwati
- (c) Justice H. J. Kania
- (d) Justice Mehr Chand Mahajan

Q73. Complete the Figure X from the given alternatives 1, 2, 3, 4



(X)



(1)



(2)



(3)



(4)

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Direction (74 -76) : Study the following table and answer the questions based on it.

Following table gives the expenditures of a company (in lakh rupees) per annum over the given years

Year	Salary	Fuel and Transport	Bonus	Interest on loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

Q74. The ratio between the total expenditure on taxes for all the years to the total Bonus for all the years respectively is?

- (a) 9:40
- (b) 25:13
- (c) 451:17
- (d) 1:25

Q75. Expenditure on Fuel and Transport forms what percentage of expenditure on Salary for all the years?

- (a) 34.26 %
- (b) 39.22 %
- (c) 33.57 %
- (d) 33.58 %

Q76. The total expenditure of the company over the items during the year 2001 is –

- (a) Rs. 590 lakhs
- (b) Rs. 598 lakhs
- (c) Rs. 597 lakhs
- (d) Rs. 597.08 lakhs

Q77. Pointing to a boy in a photograph. Rani said. "His mother's only daughter is my mother". How is Rani related to that boy?

- (a) Wife
- (b) Sister
- (c) Niece
- (d) Nephew

Q78. The first gasoline-run car engine was developed by:

- (a) Henry Ford
- (b) Carl Benz
- (c) Hugh Chalmers
- (d) Horace Elgin Dodge

Q79. The first democratically elected female President of Africa is from

- (a) Nigeria
- (b) Liberia
- (c) Tanzania
- (d) Kenya

Q80. Answer the questions based on the below information. If '+' is 'x', '-' is '+', 'x' is '÷' and '÷' is '-'. Then  $9 \div 5 + 4 - 3 \times 2 = ?$

- (a) 2
- (b) -9
- (c) -3
- (d) -9.5

Q81. The length of a diagonal in cms of a rectangle of length 5 cm and width 3 cm is:

- (a)  $\sqrt{34}$
- (b)  $\pm \sqrt{34}$
- (c) 4
- (d)  $\pm 4$

Q82. The number of sides of a regular polygon whose exterior angles are each  $72^\circ$  is?

- (a) 7
- (b) 6
- (c) 5
- (d) 8

Q83. Which among the following is not an environment friendly mode of producing electricity?

- (a) Thermal Power
- (b) Solar Power
- (c) Wind Energy
- (d) Bio-waste

Q84. The G-20 Summit in November 2015 was organized in which European Country?

- (a) Germany
- (b) France
- (c) Turkey
- (d) Spain

Q85. Read the statements and select a conclusion from the given alternatives:

Statements:

The healthcare system has expanded in terms of number of hospitals. But the fact is that most of them are not well equipped and unable to make significant progress in the field of patient care.

Conclusions:

I. We should provide good doctors and equipment to existing hospitals now onwards.

II. Now, it is not necessary to open any new hospitals.

- (a) Only conclusion I follows.
- (b) Only conclusion II follows.
- (c) Both I and II follow.
- (d) Neither I nor II follows.

Q86. Mr. Ibrahim Borrowed Rs. 7500 at 5% per annum compound interest. The compound interest compounded annually for 2 years is.

- (a) 768.75
- (b) 8268.75
- (c) 8286.75
- (d) 786.75

Q87. \_\_\_\_\_ was the first female Prime Minister of Sri Lanka.

- (a) Ranasinghe Premadasa
- (b) Dingiri Banda Wijetunge
- (c) Sirimavo Bandaranaike
- (d) Chandrika Kumaratunga

Directions (88 -90): Five boys are sitting on a bench to be photographed. Sachin is to the left of Ram and to the right of Bin. Monty is to the right of Ram. Rony is between Ram and Monty.

Q88. Who is in the middle of the photograph?

- (a) Bin
- (b) Ram
- (c) Rony
- (d) Sachin

Q89. Who is second from the right in the photograph?

- (a) Monty
- (b) Ram
- (c) Rony
- (d) Bin

Q90. Who is second from the left in the photograph?

- (a) Rony
- (b) Monty
- (c) Bin
- (d) Sachin

Q91. Answer the questions based on the below information. If '+' is 'x', '-' is '+', 'x' is '÷' and '÷' is '-'. Then  $3 \times 2 + 4 - 2 \div 9 = ?$

- (a) -1
- (b) 1
- (c) -2
- (d) 3

Q92. What is the meaning of an ECOTONE?

- (a) ECOTONE is where two biomes meet
- (b) It's an area with low survival for species
- (c) An area with limited Flora and fauna
- (d) An area with high biomass production

Q93. Rakshanth is twice as good a tradesman as Verma and together they finish a piece of work in 19 days. In how many days will Verma alone finish the work?

- (a) 38
- (b) 57
- (c) 76
- (d) 50

Q94. Read the statements and select a conclusion from the given alternatives:

Statement:

To cultivate interest in debate the school has made it compulsory from December, 2015 for each student to attend two debate classes per week and submit a weekly report on the debates discussed.

Conclusions:

- I. Interest in debating can be created by force.
  - II. Some students eventually will develop interest in debating.
- (a) Only conclusion I follows.
  - (b) Only conclusion II follows.
  - (c) Both I and II follow.
  - (d) Neither I nor II follows.

Q95. Bill Gates co-founded 'Microsoft Corporation' in 1975 with?

- (a) Chris Hughes
- (b) Tim Berners-Lee
- (c) Steve Paul Jobs
- (d) Paul G. Allen

Q96. Two numbers are in ratio 2:5 and their HCF is 18. Their LCM is.

- (a) 180
- (b) 36
- (c) 90
- (d) 188

Q97. How many constellations have been named?

- (a) 88
- (b) 99
- (c) 90
- (d) 87

Q98. Complete the Figure X from the given alternatives 1, 2, 3, 4



(X)



(1)



(2)



(3)



(4)

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q99. \_\_\_\_\_ jointly launched International Solar Alliance (ISA) at Conference of Parties (CoP21) Climate Conference held in Paris, France on 1<sup>st</sup> December 2015.

- (a) India and China
- (b) India and France
- (c) India and USA
- (d) India and Russia

Q100. If in a certain language KINDLE is coded as ELDNIK, how is IMPOSING coded in that code?

- (a) GNIOSPMI
- (b) GNSIOPMI
- (c) GNISPOMI
- (d) GNISOPMI