

QUESTION PAPER

APTITUDE TEST

(PAPER II)

Held on 15.06.2013

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Aptitude Test

Paper II

Duration : 2 Hours]

[Marks : 200

1. Amit, Sumit and Vinit divide an amount of Rs. 2,800 amongst themselves in the ratio of 5 : 6 : 3 respectively. If an amount of Rs. 200 is added to each of their shares, what will be the new ratio of their shares ?

- $\frac{2800}{2+6+3} = 280$
 $2:14:8$
 $6:7:4$
- (A) 8 : 9 : 6
 (B) 6 : 7 : 4
 (C) 7 : 8 : 6
 (D) None of the above

2. Find the missing number in the given pattern :

1	2	3
11	7	5
120	45	74

X

$8 \times 5 = 40$

19

- (A) 19
 (B) 17
 (C) 16
 (D) 15

3. Total numbers which are there between 100 and 1000 such that every digit is either 2 or 9 are :

- (A) 8
 (B) 14
 (C) 18
 (D) None of the above

TS : 13/(P)/II-C

222
 229
 292
 299
 922
 929
 992
 999

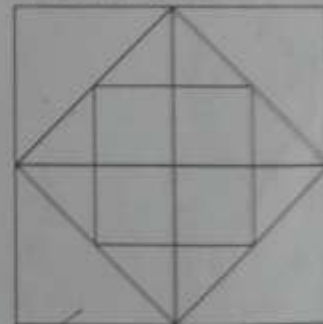
Supriya's monthly income is twice Deepa's monthly income. The ratio of the monthly income of Deepa and Sandhya is 7 : 3 respectively and their average monthly income is Rs. 25,000. What is Supriya's monthly income ?

- (A) Rs. 35,000
 (B) Rs. 50,000
 (C) Rs. 75,000
 (D) None of the above

4. In a race of 600 m A car beats B by 50 m and in a race of 500 m, B car beats C by 60 m. In a race of 400 m, A will beat C by :

- (A) $77\frac{1}{3}$ m
 (B) 77 m
 (C) 76 m
 (D) $77\frac{2}{3}$ m

5. How many squares are there in the following figure ?



- (A) 11
 (B) 9
 (C) 10
 (D) 16

7. X can copy 80 pages in 20 hours, X and Y together can copy 135 pages in 27 hours. In what time can Y copy 20 pages ?

(A) 12 hours
(B) 24 hours
(C) 20 hours
(D) 3 hours

8. 5 kg of sugar costing Rs. 8 per kg and 3 kg of sugar costing Rs. 6 per kg are mixed. What will be the average cost of the mixture ?

(A) Rs. 8
(B) Rs. 7.25
(C) Rs. 6.25
(D) Rs. 7

9. One of the angles of a parallelogram is 26° . What is the difference between the adjacent angles of parallelogram ?

(A) 138°
(B) 144°
(C) 128°
(D) None of the above

10. The ratio of the length and the breadth of a rectangular plot is 7 : 6. The perimeter of the plot is 208 meters. What is the area of the rectangular plot ?

(A) 2696 sq. m
(B) 2688 sq. m
(C) 2592 sq. m
(D) None of the above

TS : 13(P)/II-C

11. Out of all the integer from 1 to 100, a number is selected at random. The probability that the selected number is not divisible by 7 is :

(A) $7/100$
(B) $49/50$
(C) $7/50$
(D) $43/50$

12. When the sum and difference of two numbers are 12 and 6 respectively, the ratio of numbers is given by :

(A) $1/2$
(B) $1/3$
(C) $1/4$
(D) $1/5$

13. The mean of 100 observations is 200. If one of the observations is taken as 250 instead of correct observation 50, the correct mean is given by :

(A) 200
(B) 202
(C) 198
(D) 199

14. Find the missing pattern :



TS < 13(P)/II-C

15. The Pie-chart shows the spending of a country on a Golf during a particular year :



The percentage of the total spending is spent on Golf :

- (A) $12\frac{1}{2}\%$
 (B) $22\frac{1}{2}\%$
 (C) 25%
 (D) 45%

Handwritten notes:
 $360 \rightarrow 45^\circ$
 $\frac{45}{360} \times 100 = 12.5\%$
 $12\frac{1}{2}\%$

16. The ages of two persons are in the ratio 5 : 7. After 14 years their ages will be in the ratio 7 : 9. What are their present ages ?

- (A) 35 and 49
 (B) 40 and 56
 (C) 25 and 35
 (D) 45 and 63

Handwritten solution:
 $5x : 7x$
 $\frac{5x+14}{7x+14} = \frac{7}{9}$
 $45x + 126 = 49x$
 $28 = 4x$
 $x = 7$
 35 and 49

17. A bag contains an equal number of one rupee, 50 paise and 25 paise coins. If the total value is Rs. 70, how many coins of each type are there ?

- (A) 35
- (B) 25
- (C) 30
- (D) 40

$$x + 0.5x + 0.25x = 70$$

$$1.75x = 70$$

$$x = \frac{70}{1.75} = 40$$

18. A person divides his property so that his son's share to his wife's share and the wife's share to his daughter's share are both in the ratio 3 : 1. If daughter gets Rs. 20,000 less than the son, find the total worth of the property.

- (A) ₹60,000
- (B) 32,500
- (C) 37,500
- (D) 16,250

S: W }
W: D }
3x }
x }
3x }

19. A software company wants to hire engineers in such a way that 32 of them can handle Java programming, 28 of them can perform C++ programming and 15 of them can work on both Java and C++ programming. Find the minimum number of engineers to be hired by the company to cope with the situation.

- (A) 60
- (B) 75
- (C) 45
- (D) 47

$$32 + 28 - 15 = 45$$

TS : 13(P)/II-C

20. If the sizes of thirteen shirts in cms are :

- 85, 90, 95, 90, 105, 100, 95, 90, 95,
- 100, 90, 110, 115.

what is the modal size ?

- (A) 95
- (B) 90
- (C) 100
- (D) 105

21. If m and n are whole numbers such that $m^n = 144$, then $(m-1)^n + 1$ is equal to :

- (A) 1331
- (B) 1312
- (C) 1024
- (D) 1309

$$12^2 = 144$$

$$(12-1)^3 = 11^3$$

22. If

$$x = \frac{(49+21)^2 + (49-21)^2}{(49)^2 + (21)^2}$$

then x is equal to :

- (A) 70
- (B) 28
- (C) 1
- (D) 2

$$\frac{60^2 + 28^2}{49^2 + 21^2}$$

23. The sum of even numbers from 1 to 200 is :

- (A) 9810
- (B) 10000
- (C) 10100
- (D) 20200

$S = \frac{n}{2} [2a + (n-1)d]$
 $S = \frac{100}{2} [2 \times 2 + (100-1) \times 2]$
 $S = 50 [4 + 198 \times 2]$
 $S = 50 [4 + 396]$
 $S = 50 \times 400 = 20000$

24. A candidate was asked to find $\frac{7}{8}$ th of a positive number. He found $\frac{7}{15}$ of that number by mistake. If his answer was 770 less than the correct one, the original number was :

- (A) 1584
- (B) 2024
- (C) 1320
- (D) 1684

$\frac{7}{8}x - \frac{7}{15}x = 770$
 $7x \left[\frac{1}{8} - \frac{1}{15} \right] = 770$
 $7x \left[\frac{15 - 8}{120} \right] = 770$
 $7x \left[\frac{7}{120} \right] = 770$
 $7x = \frac{770 \times 120}{7}$
 $7x = 1320 \times 10$
 $7x = 13200$
 $x = \frac{13200}{7}$
 $x = 1885.71$

25. The mean of the data :

x	Frequency
10	3
15	2
20	5
25	4
30	6

is :

- (A) 20
- (B) 22
- (C) 25
- (D) 23

$\frac{\sum fx}{\sum f}$
 $\frac{10 \times 3 + 15 \times 2 + 20 \times 5 + 25 \times 4 + 30 \times 6}{3 + 2 + 5 + 4 + 6}$
 $\frac{30 + 30 + 100 + 100 + 180}{20}$
 $\frac{440}{20} = 22$

TS : 11A(P)/II-C

26. If the median of the data :

24, 27, 28, 31, 34, x, 37, 40, 42, 45 as arranged above in ascending order is 35, then the value of x should be :

- (A) 32
- (B) 33.5
- (C) 35
- (D) 36

$34 + x = 70$
 $x = 70 - 34 = 36$

27. A and B can clean a shed in 12 days, B and C can clean the same shed in 15 days and C and A can do it in 20 days. How long does C take to clean the shed ?

- (A) 45 days
- (B) 48 days
- (C) 60 days
- (D) 50 days

$\frac{1}{A} + \frac{1}{B} = \frac{1}{12}$
 $\frac{1}{B} + \frac{1}{C} = \frac{1}{15}$
 $\frac{1}{A} + \frac{1}{C} = \frac{1}{20}$

28. The co-ordinates of the points where the lines $2x - y = 1$ and $x + 2y = 8$ meet the y-axis are respectively :

- (A) $\left(\frac{1}{2}, 0\right)$ and (8, 0)
- (B) (0, 3) and (0, 4)
- (C) (0, -1) and (0, 4)
- (D) (0, -1) and (4, 0)

$y = -1$
 $x = 4$

29. The greatest number of 4 digits which is exactly divisible by 12, 15, 20 and 35 is :

(A) 9760
(B) 9660
(C) 9590
(D) 9874

30. A tree is broken by wind and its upper end touches the ground at a point 10 meters from the foot of the tree and makes an angle of 45° with the ground. The entire length of the tree was :

(A) 15 meters
(B) 20 meters
(C) 28 meters
(D) $10(1 + \sqrt{2})$ meters

31. Two trains of equal lengths are running on parallel lines in the same direction at the rate of 46 and 36 km/hour respectively. The faster train passes the slower train in 36 seconds. The length of each train is :

(A) 50 meters
(B) 72 meters
(C) 80 meters
(D) 100 meters

32. In 30 litres of a mixture of milk and water, the ratio of the constituents in the above order is 7 : 3. How many litres of water be added to make this ratio 3 : 7 ?

(A) 10 litres
(B) 21 litres
(C) 50 litres
(D) 40 litres

33. If profit percentage is numerically equal to the cost price in rupees. If the selling price is Rs. 39, what is the cost price ?

(A) 20
(B) 25
(C) 30
(D) 33.33

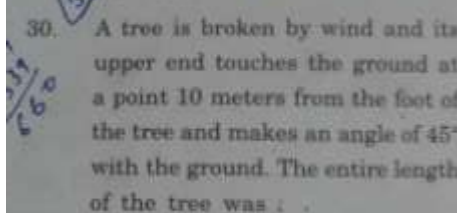
34. How many square tiles of 2.5 cms side will be required to pave a path $\frac{1}{2}$ meter wide around the outside of a plot 10 meter long and 5 meter broad ?

(A) 2000
(B) 25600
(C) 256
(D) 1024

35. Find the smallest number which is divisible by 15, 18 and 25 and is a perfect square :

(A) 900
(B) 225
(C) 1800
(D) 450

Handwritten notes for Q29: $12, 15, 20, 35$ are listed. A calculation shows $3 \times 12 = 36$, $5 \times 15 = 75$, $2 \times 20 = 40$, and $1 \times 35 = 35$. The LCM is calculated as $3 \times 5 \times 2 \times 7 = 210$. Then $210 \times 46 = 9760$ is found to be the correct answer.

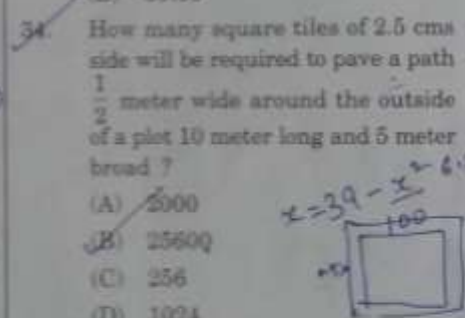


Handwritten notes for Q30: A right-angled triangle is drawn with a vertical side of 10m, a horizontal base of 10m, and a hypotenuse of $10\sqrt{2}$ meters. The angle between the hypotenuse and the base is 45° . The total height of the tree is the sum of the vertical side and the hypotenuse, which is $10(1 + \sqrt{2})$ meters.

Handwritten notes for Q31: 10×10^3 is written. The relative speed is $46 - 36 = 10$ km/h. The time taken to pass is 36 seconds. The length of each train is $10 \times \frac{36}{3600} \times 1000 = 100$ meters.

Handwritten notes for Q32: The initial ratio is 7:3. Let the amount of water added be x liters. The new ratio is $\frac{7}{7+x} = \frac{3}{7}$. Solving for x gives $x = 21$ liters.

Handwritten notes for Q33: $S.P = 39$. $C.P = S.P - \frac{P}{100} \times C.P$. $x = 39 - \frac{x}{100} \times 39$. $x = 39 \times \frac{100}{100+39} = 33.33$.



Handwritten notes for Q34: $x = 39 - \frac{x}{100} \times 39$. A diagram shows a rectangle with dimensions 10 and 5, and a path of width 0.5 around it. The area of the path is $11 \times 6 - 10 \times 5 = 16$ square meters. The number of tiles is $\frac{16}{0.025 \times 0.025} = 25600$.

Handwritten notes for Q35: $x = \frac{P}{100} \times 100$. The LCM of 15, 18, and 25 is 450. The smallest perfect square divisible by 450 is $450 \times 2 = 900$.

Directions (Question Nos. 36 to 40) :

Read the following passage and answer the questions that follow :

The growing tendencies towards regionalism in the country have had serious effects on higher education. These tendencies are generally expressed in demands relating to the medium of instruction. Some of these demands are based on sound educational principles and are wholly justifiable; but in their most extreme form they usually indicate either ignorance of the minimum requirements of higher education or chauvinism of a kind that places considerations of a parochial character above these requirements. In practice, both have been in evidence.

More specifically, the problem arises when instruction at the post-graduate level is sought to be given in the regional languages. Most of the relevant literature with which students at this level of education ought to be familiar is usually not available in any of the regional languages. It is true that comprehension is much easier in the mother tongue, and that the necessary literature could grow over a period of time. But when the range of literature a student is exposed to at even the post-graduate level is constricted by language barriers, the content of education gets diluted. Since the products of such education are later absorbed as teachers of the succeeding generations, the damage done is more long-lasting than is generally assumed.

The usual answer to these impediments is that English needs to be taught as a "library language" and students should be required to familiarize themselves with the more advanced literature in the subject through this language. In principle this is unobjectionable, particularly if the "library language" is taught intensively from an early stage of schooling and the students have therefore no difficulties of comprehension through this language.

36. As per the passage higher education should be provided in :
- (A) English
 - (B) the mother tongue of students
 - (C) the language of the region
 - (D) a "library language"
37. The intervention of regional voices has had a _____ effect on the quality of higher education.
- (A) beneficial
 - (B) damning
 - (C) diluting
 - (D) chauvinistic
38. How does the author view the higher education scenario in India ?
- (A) He is appreciative of its steady progress
 - (B) He is critical of the lack of ethical practices
 - (C) He wants a revamp of the whole system
 - (D) He presents a critical analysis of the situation
39. The medium of instruction at the post-graduate level should be chosen discerningly because :
- (A) comprehension is much easier in the mother tongue.
 - (B) it is linked to the growth of personality of the students.
 - (C) many of the beneficiaries have a deep influence as teachers on succeeding generations.
 - (D) such students must rise above parochial considerations.
40. The benefits of higher education can be reaped to the maximum by students if they are exposed to "library language" _____
- (A) for a specified period of time
 - (B) from an early stage of schooling
 - (C) for a short, intensive duration
 - (D) alongside of their mother tongue

Directions (Question Nos. 41 to 45) :

Read the following passage and answer the questions that follow :

We all are creatures of the clichés among which we have grown up. From the middle of the nineteenth century, such phrases as 'the struggle for existence' or 'the survival of the fittest', and 'for a long time the biologists' theory that the animal world was like 'a gladiator's show', have conditioned our thinking. More recently, the general Freudian atmosphere, supporting the old idea of the original sin, has destroyed our belief even in our babies, who appear as little gangsters possessed by jealousy and hate. The result has been that many of us have felt that it is all hopeless, that it is natural for everything to fight for itself, that struggle is the law of existence, and thus hatred and war are inevitable. But during the present times there has been more and more evidence to suggest that co-operation may be even more

important in the evolutionary process than competition.

While in nature, there is indeed a struggle for life, there is also such a thing as the struggle for the life of others, and today the principle of co-operation is in a fair way becoming established as the most important factor in the survival of animal groups as of individuals. From the protozoa right up to man this mutual aid has been established : there is a 'social appetite' even in the lowest of organisms. No longer can domination of the weaker by the stronger, whether individuals or nations, be supported by the supposed example of the natural world.

41. The most appropriate title for the passage would be :
- (A) The conditioned world of evolution
 - (B) The process of evolution
 - (C) Clichés about evolution
 - (D) Understanding evolution afresh

42. Implicit in the 'struggle for life' is :

(A) the struggle for one's own survival

(B) the struggle for the survival of other forms of life

(C) the struggle for the survival of one's species

(D) the struggle for the survival of one's progeny

43. What has led to the destruction of our belief even in our babies ?

(A) The primordial idea that man is a born sinner

(B) The common belief that as we grow up we succumb to hatred and war

(C) Our gladiatorial instinct for 'the survival of the fittest'

(D) Our lack of understanding of 'the principle of co-operation' among species

44. The passage has a/an _____

attitude towards biologists' views about evolution.

(A) appreciative

(B) doubting

(C) interrogative

(D) sarcastic

45. The passage is a fervent plea for :

(A) inculcation of a scientific temperament amongst people

(B) upholding of the sanctity of established scientific theories

(C) recognizing the need for reassessing dominant scientific views on evolution

(D) all of the above

Directions (Question Nos. 46 to 50):

Each sentence below has two blanks and is followed by four sets of words. Choose the set of words that best fills in the blanks.

46. The good administrator should not only be but should have the to know when to do a particular thing.

- (A) intelligent; willingness
- (B) perceptive; sagacity
- (C) worthy; power
- (D) courageous; courtesy

47. The ancient teachers insisted on strict disciplining of the disciples before they to impart knowledge of import to them.

- (A) ventured; profound
- (B) facilitated; high
- (C) concluded; significant
- (D) decided; meaningful

48. It is true that the between the different branches of science are being broken.

- (A) boundaries; finally
- (B) fences; continuously
- (C) borders; constantly
- (D) frontiers; continually

49. My intention is to draw a realistic picture, and if there is any touch of pessimism, it is in the present situation and it is for us to it.

- (A) prevalent; shun
- (B) inherent; rectify
- (C) hidden; discover
- (D) obtainable; correct

50. of power from atomic disintegration remained just a dream till the of nuclear fission was discovered.

- (A) extraction; process
- (B) capture; procedure
- (C) generation; phenomenon
- (D) making; phenomena

51. Which one of the following does not fall under the dark side of charismatic leadership ?

- (A) Narcissism
- (B) Self-Aggrandizement
- (C) Petty tyranny
- (D) Obsessive concern with perfection

52. The extent to which two individuals share the same attitudes about a range of topics is known as :

- (A) Cognitive dissonance
- (B) Attitude similarity
- (C) Similarity-dissimilarity effect
- (D) Cognitive consonance

53. As humans are aware of the inevitability of their own death, they confront existential terror. This statement explains :

- (A) Self-monitoring
- (B) Self-complexity
- (C) Terror management theory
- (D) Regular focus theory

54. Ravi works in a firm. He has respect for himself and believes in the capability and competence of others. He trusts others and is trusted by others. What kind of style Ravi has ?

- (A) Secured attachment style
- (B) Selective avoidance style
- (C) Self-reference effect style
- (D) Social facilitation style

55. Hari is not a person who is bothered much about his friends and colleagues. However, he wants to have control on all the information about the activities they undertake including their resources and participation in different activities and events. Which one of the following is the main component of Hari's nature ?

- (A) Influence
- (B) Leadership
- (C) Mentoring
- (D) Power

56. Which one of the following represents the cognitive component of an attitude ?

- (A) "I just love Punjabi Food"
- (B) "Tonight we are going to that new Punjabi restaurant"
- (C) "Punjabi food is the best of Asian Cuisine"
- (D) "I am going to make Bhature Chhole tonight"

57. Ramesh is trying to persuade the farmers to adopt a new kind of technology. Which one of the following he should not include in his efforts ?

- (A) Information about the technology or his own expertise
- (B) Significant issues in his message
- (C) Gather a crowd who support his idea
- (D) Find the characteristics of the audience

58. When a person tries to cope by eliminating or changing the stressor directly, it is known as :

- (A) A defense mechanism
- (B) Problem focussed coping
- (C) Self-focussed coping
- (D) Emotion-focussed coping

59. When Shivani is presenting an argument against the views of Subodh, both give out their ideas, provide counter offers and are ready to give concessions either directly or through representatives. This process can be labelled as :

- (A) Availability heuristics
- (B) Negotiation
- (C) Authentic dissent
- (D) Augmentic principle

60. The differential styles initially developed in the interactions between infant and caregiver when the infant acquires basic attitudes about self worth, security and interpersonal trust, refers to :

- (A) Attachment styles
- (B) Anchoring and adjustment heuristics
- (C) Attitude accessibility
- (D) Attribution

61. Nikhil is basically a helpful person. One day he is with his close friends and witnesses an accident. Nikhil does not take any initiative in helping the victim as he is with his close group. This kind of behaviour is known as :

- (A) Identity interference
- (B) Stereotype formation
- (C) Implicit bystander effect
- (D) In-group differentiation

62. Which theory suggests that norms will influence behaviour only to the extent they are focal for the person involved at the time the behaviour occurs ?

- (A) Normative focus theory
- (B) Normative social influence
- (C) Social conformity
- (D) Cognitive dissonance

63. When we collectively misunderstand what attitudes others hold, and believe erroneously that others have different attitudes than ourselves, we are getting involved in :

- (A) Prejudice
- (B) Pre-occupied attachment style
- (C) Optimistic bias
- (D) Pluralistic ignorance

64. Sanjay behaves with his group of friends in his college which brings bad name to the value of the identity of his group. As a consequence his group members pass derogatory remarks to him so that their group identity is protected. How would you identify the position of Sanjay ?

- (A) A bully
- (B) A black-sheep
- (C) An abnormal personality
- (D) A threatened person

65. The individuals' judgement about whether they are receiving a fair share of available rewards — a share proportionate to their contributions to the group or any social relationship refers to :

- (A) Distributive justice
- (B) Discounting principle
- (C) Ego-defensive function
- (D) Procedural justice

66. Shankar is trying to change the attitude of Piyush. In his effort he uses various types of messages and arguments. This is known as :

- (A) Negotiation
- (B) Attribution
- (C) Persuasion
- (D) Attitude formation

67. Why people come under social influence ? What is the fundamental assumption in this regard ? Choose your option :

- (A) Some people have low self-esteem
- (B) People in general are like sheep; they like to be influenced
- (C) People are influenced by bribes or rewards
- (D) People expect to see the same world as everyone else does and are influenced by perceptions of others; also if they admit seeing the world as different, they may look like fools

68. When we change our mind because we are genuinely persuaded by a group's position, we are conforming because of :

(A) Internalization
 (B) Compliance
 (C) Disinterest
 (D) Externalization

69. Which is the term that describes a state in which a person misinterprets what others believe, and then uses that misinterpretation as evidence about what must be true ?

(A) Pluralistic responsibility
 (B) Diffusion of responsibility
 (C) Bystander intervention
 (D) Pluralistic ignorance

70. When people overestimate the typicality of their own behaviour, they are showing :

(A) Ethnocentrism
 (B) Attribution to internal causes
 (C) Emotion driven thought
 (D) Ego-centric bias

71. Which number should come in place of [?] in the series ?
 71, 76, 69, 74, 67, [?]

(A) 77
 (B) 65
 (C) 80
 (D) 76

72. Find out the wrong term in the following series :
 8, 14, 26, 48, 98, 194, 386.

(A) 194
 (B) 98
 (C) 48
 (D) 14

73. Which term of a letter series should come in place of [?] in the following series ?
 ejo, tyd, ins, xch, [?]

(A) nrw
 (B) msx
 (C) nsq
 (D) mrw

S : 13(P)/II-C

32

74. 'Curie' is related to 'radium' in the same way as 'vitamins' is related to :
- (A) Funk
(B) Pott
(C) Lisfranc
(D) Geissler
75. 'Lotus' is related to 'Cuticle' in the same way as 'Fish' is related to :
- (A) Gills
(B) Scales
(C) Tail
(D) Wings
76. Which of the following is the same as Sitar, Guitar and Tanpura ?
- (A) Harmonium
(B) Trumpet
(C) Mridanga
(D) Violin
77. Which of the following is the same as weevils, borer and beetle ?
- (A) Termites
(B) Lice
(C) Moth
(D) Ringworms
78. If CASUAL is coded as GEWYEP, then how will PEOPLE be coded ?
- (A) SHRSOH
(B) TISTPI
(C) SIRTOI
(D) THSTOI
79. If POPULAR is coded as QPQVMBB, then which of the following words will be coded as GBNTVT ?
- (A) FAMOUS
(B) FRIEND
(C) FOURTH
(D) FRESKO
80. If ROPE is coded as 6821 and CHAIR is coded as 73456, then which of the following will be the code for CRAPE ?
- (A) 73456
(B) 74265
(C) 76142
(D) 76421
81. If 'sand' is called 'air', 'air' is called 'plateau', 'plateau' is called 'well', 'well' is called 'island' and 'island' is called 'sky', then from where will a farmer draw water ?
- (A) Well
(B) Sky
(C) Island
(D) Air
82. A party consists of grandmother, father, mother, four sons and their wives and one son and two daughters to each of the sons. How many females are there in all ?
- (A) 14
(B) 16
(C) 18
(D) 15

83. Neelam, who is daughter of Deepak, says to Deepika, "Your mother Rekha is the younger sister of my father who is the third child of Ramlal." How is Ramlal related to Deepika ?

- (A) Father
- (B) Grandfather
- (C) Uncle
- (D) Father-in-law

Dear
Neelam
Deep
Deepika
Mother

Directions (Question Nos. 84 and 85) :

In each of the following questions four words have been given, out of which three are alike in some manner and the fourth is different. Choose out the odd one.

- 84. (A) Mandible
 - (B) Rib
 - (C) Sternum
 - (D) Pinna
85. (A) Blaze- (B) Glimmer
- (C) Simmer
- (D) Shimmer

Directions (Question Nos. 86 to 90) :

Each of the question nos. 86 to 90 is based on the information given below. Read the following information carefully and answer the questions accordingly :

Seven students P, Q, R, S, T, U and V take a series of tests in which no two students get similar marks. V always scores more than P. P always scores more than Q. Each time either R scores the highest and T gets the lowest or alternately S scores the highest and U or Q scores the lowest marks.

86. If S is ranked sixth and Q is ranked fifth, which one of the following can be true ?
- (A) V is ranked first or fourth
 - (B) U is ranked third or fourth
 - (C) R is ranked second or third
 - (D) P is ranked second or fifth

87. If R gets most, V should be ranked not lower than :

- (A) Fourth
- (B) Second
- (C) Fifth
- (D) Third

88. If R is ranked second and Q is ranked fifth, which of the following must be true ?

- (A) S is ranked third
- (B) P is ranked sixth
- (C) T is ranked sixth
- (D) V is ranked fourth

89. If S is ranked second, which of the following can be true ?

- (A) V gets more than S
- (B) P gets more than R
- (C) T gets more than Q
- (D) U gets more than V

90. If V is ranked fifth, which of the following must be true ?

- (A) S scores the highest
- (B) R is ranked second
- (C) T is ranked third
- (D) Q is ranked fourth

TS : 13(P)/II-C

Directions (Question Nos. 91 to 94) :

In each question two statements followed by four conclusions are given. You have to take the two given statements to be true even if they seem to be at variance from the commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements disregarding commonly known facts.

91. Statements :

Manas is a player.

All the players are tall.

Conclusions :

- (A) All tall men are players.
- (B) Tall men are not players.
- (C) Manas is tall.
- (D) Manas is not tall.

38

S --- V P Q

92. Statements :

All men are vertebrates.
Some mammals are vertebrates.

Conclusions :

- (A) All men are mammals.
- (B) Some vertebrates are mammals.
- (C) All mammals are men
- (D) All vertebrates are men

93. Statements :

All men are dishonest.
Some men are fraudulent.

Conclusions :

- (A) Either all fraudulent persons are dishonest or all dishonest are fraudulent.
- (B) Generally fraudulent persons are dishonest.
- (C) Fraud and dishonesty go together.
- (D) Some dishonest persons are fraudulent.

TS : 13(P)/II-C

94. Statements :

Some teachers are not learned — is false.

Which of the following is false ?

Conclusions :

- (A) All teachers are learned.
- (B) Some learned beings are teachers.
- (C) Some teachers are learned.
- (D) All learned beings are teachers.

95. In a cricket series India defeated Australia twice, West Indies defeated India twice, Australia defeated West Indies twice, and India defeated West Indies and New Zealand twice. Which country lost most number of matches ?

- (A) West Indies
- (B) India
- (C) Australia
- (D) New Zealand

A-2
I-2
W-2
N-2

96. In a group of six women there are three violinists, four dancers, four vocalists and one actress. Girija and Vanaja are among the violinists, while Jalaja and Shailaja do not know how to play violin. Shailaja and Tanuja are among the dancers. Jalaja, Vanaja, Shilaja and Tanuja are all vocalists and two of them are also violinists. If Pooja is an actress, who among the following is both a dancer and a violinist ?

- (A) Jalaja
- (B) Shailaja
- (C) Tanuja
- (D) Pooja

97. Kadambari is older than Kalyani by 5 years and Kumud is younger than her by the same number of years. Kamayani is younger than Kalyani by 5 years. If Kadambari was born in 1915, in which year the youngest sister was born ?

- (A) 1920
- (B) 1925
- (C) 1930
- (D) 1935

Kad + 5 = 1915
 Kaly ?
 Kum. - 5 = ?
 Kama - 5 = ?

S : 13(P)/II-C

98. If \div means \times , \times means $+$, $+$ means $-$ and $-$ means \div , then what will be the value of $40 \times 12 \div 3 - 6 + 60$?

- (A) 44
- (B) 4
- (C) 16
- (D) 7.95

$40 + 12 \div 3 \times 6 - 60$
 $40 + 4 \times 6 - 60$
 $40 + 24 - 60$
 64

99. If $+$ means \div , \div means $-$, $-$ means \times and \times means $+$, then $48 \div 16 + 4 - 2 \times 8 = ?$

- (A) 3
- (B) 6
- (C) 112
- (D) -28

$48 \div 16 - 4 \times 2 - 8$
 $3 - 8 - 8$
 $3 - 16$
 -14

100. If $+$ means \times , \times means $+$, $+$ means $-$ and $-$ means \div , then $3 \times 6 - 12 \times 1 - 2 \div 3 = ?$

- (A) $\frac{7}{24}$
- (B) $2\frac{5}{8}$
- (C) $\frac{3}{4}$
- (D) 5

$3 + 6 \div 12 + 1 \div 2 \times 3$
 $3 + \frac{1}{2} + \frac{3}{2} \times 3$
 $3 + \frac{1}{2} + \frac{3}{2}$
 $\frac{6 + 1 + 3}{2} = \frac{10}{2}$
 5

$48 \div 16 - 4 \times 2 - 8$
 $3 - 8 - 8$

42