

GENERAL INTELLIGENCE AND REASONING ABILITY

1. Big is related to Small in the same way as Thick is related to
- (1) Broad (2) Long
(3) Thin (4) Tear
2. If the first and the third letters in the word CONGRUATION were interchanged, also the second and the fourth letters, the fifth and the seventh letters, and so on, which letter would be the eighth counting from your left?
- (1) E (2) R
(3) T (4) O
3. Two of the following four have the same meaning, which of the remaining two would appear earlier in a dictionary?
- (1) climate (2) impose
(3) explore (4) weather
4. If Shrikh is taller than Charu but shorter than Raju, and Charu is just as tall as Dilip but taller than Ashok, then Dilip is
- (1) Just as tall as Shrikh
(2) Shorter than Shrikh
(3) Shorter than Charu
(4) Taller than Raju
5. If "+" means "x", "-" means "÷", "x" means "+", "÷" means "-", then
- $$128 \div 16 \times 32 - 8 \div 8 = ?$$
- (1) 35 (2) 63
(3) 25 (4) 15
6. How many 6's are there in the following sequence which are followed by 8 and preceded by 5?
- 7 4 8 6 3 2 7 1 8 6 5 9 8 1 2 8 8
8 7 2 6 3 1 5 6 5 4 3 2 3 4
- (1) 2 (2) 3
(3) 4 (4) 5

7. In a certain code language, "pic vic nic" means "winter is cold", "to nic ro" means "summer is hot", "vic the ge" means "nights are cold", "to pic bo" means "winter and summer", which word in that language represents "summer"?
- (1) nic (2) ro
(3) pic (4) to
8. If it is possible to make a meaningful word with the second, third, fourth, fifth, sixth and seventh letters of the word PERSONALITY, write the last letter of that word.
- (1) R (2) S
(3) N (4) A
9. In a certain code, MONKED is written as OQPMKE, how could TIGER be written in that code?
- (1) VEDGT (2) UJHFS
(3) SHFDQ (4) QDFHS
10. In a certain code, FRAMOD is written as EOMARF. How is KESHAV written in that code?
- (1) LFTIHW (2) JDRGZU
(3) YAHSEK (4) YAHSEK
11. Anthropologists are related to Mankind, in the same way as Ornithologists are related to
- (1) Animals (2) Birds
(3) Minerals (4) Insects
- Directions (12-14) : Three of the given four are alike in a certain way and form a group. Which is the one that does not belong to that group?
12. (1) Tank (2) Pond
(3) Pool (4) River
13. (1) Napco (2) Coffee
(3) Dinar (4) Dollar

14. (1) Rectangle (2) Square
(3) Sphere (4) Rhombus
15. B is the brother of C, M is the sister of B, P is the brother of M, N is the daughter of C, S is the father of M. Who is the uncle of P?
- (1) B (2) M
(3) S (4) C
16. W is in 'house' in the same way as V is in
- (1) border (2) rub
(3) doubt (4) plumber
17. Which of the following will come next in the series below?
- shg, rfi, oja, pkl, ?
- (1) ele (2) ene
(3) eib (4) eke
18. Raju ranks thirty-first in a class of sixty-one. What is his rank from the last?
- (1) 30 (2) 31
(3) 17 (4) 21
19. Six players are sitting in a row. A is sitting between K and M. K is sitting next to P. P is sitting next to Y. Y is sitting on the extreme left. Q is sitting next to M. Who is sitting adjacent to K?
- (1) Q and A (2) M and Q
(3) P and A (4) Y and P
20. If $8888 = 12$, $7777 = 18$, $6666 = 15$, then $7294 = ?$
- (1) 18 (2) 16
(3) 17 (4) 19

Directions (21-23) : From the given alternatives select the word which cannot be formed using the letters of the given word.

21. INFELLOENCE
(1) GENTLE (2) INCITE
(3) CANCEL (4) NEGLECT
22. DECOMPOSITION
(1) COMPOSE
(2) ECONOMIST
(3) POSITION
(4) DOCTOR

22. DISAPPOINTMENT

- (1) TENSION (2) ATTEND
(3) OBTAINMENT
(4) SAMPLE

Directions (24-28) : Choose the correct alternative from the given ones that will complete the series.

24. UYZ, TYX, XYX, XYZ, ?

- (1) XYZ (2) QYZ
(3) XYZ (4) TYZ

25. AX, CX, KV, GT, ?

- (1) IR (2) MN
(3) RI (4) HB

26. 5, 12, 24, 41, ?

- (1) 148 (2) 253
(3) 125 (4) 111

27. 12, 10, 7, 109, 1009, 1099, 10999

- (1) 120 (2) 1099
(3) 1199 (4) 109

28. BPA, CQC, WQ, ?

- (1) KDA (2) JED
(3) KLG (4) HEP

Directions (29-32) : Find the odd word from the given alternatives.

29. (1) YELLOW (2) ORANGE

- (3) PRAYER (4) RED

30. (1) CLEAN (2) CLOWN

- (3) BUFFOON (4) JESTER

31. (1) BHAR (2) HARVANA

- (3) RAJASTHAN
(4) VARANASI

32. (1) JASMINE (2) POTATO

- (3) ROSE (4) LOTUS

Directions (33-34) : Set out the missing number from the given responses.

33. 4 3 6 5

7 9 4 2

2 5 2 8

30 12 31 7

- (1) 39 (2) 16
(3) 89 (4) 22

34. 25 18 28 43

16 11 21 35

9 7 14 7

- (1) 12 (2) 9
(3) 8 (4) 29

35. Peter is taller than Harry who is shorter than Sushod. Nile is taller than Herman but shorter than Harry. Sushod is

shorter than Peter. Who is the shortest ?

- (1) Peter (2) Herman
(3) Harry (4) Nile

36. 'A' and 'B' start from their same office and walk in opposite directions each travelling 30 kms. 'A' then turns left and walks 10 kms. 'B' turns right and walks 10 kms. How far are they now from each other ?

- (1) 20 kms (2) 10 kms
(3) 5 kms (4) 8 kms

37. Certain numbers have letters as given below :

1	2	3	4	5	6	7	8	9	0
P	A	D	C	F	R	Q	S	T	M

What is the number indicated by these letters ?

PAQMC

- (1) 22780 (2) 22704
(3) 67204 (4) 82497

Directions (38-40) : Study the information below and answer the given questions :

A, B, C, D, E, F, G, H are sitting in a circle not necessarily in the same order. Four of them are facing outside and four of them are facing the centre. E faces outside, both the immediate neighbours of E face the centre. H sits second to the right of E. B sits third to the left of E. D faces the centre. Both the immediate neighbours of D face outside. G sits second to the left of A. B sits third to the right of H. F is an immediate neighbour of D. C is an immediate neighbour of G. D is not an immediate neighbour of E.

38. Who sits third to the right of A ?

- (1) D (2) E
(3) F (4) A

39. How many are seated between A and G (counting clockwise from A) ?

- (1) Two (2) Four
(3) One (4) None

40. Who sits exactly between F and C ?

- (1) E (2) B
(3) G (4) A

ARITHMETICAL AND NUMERICAL ABILITY

41. 50% of $\sqrt{3136} + 0.01 = ?$

- (1) 28 (2) 230
(3) 450 (4) 2300

42. $58 \times 58 - 2 \times 2 = ?$

- (1) 3608 (2) 3600
(3) 3528 (4) 3400

43. The ratio of the ages of A and B is 2 : 7. Five years ago, age of B was six times that of A. What is the present age of A ?

- (1) 8 years (2) 10 years
(3) 15 years (4) 20 years

44. How many diagonals can be drawn in a Hexagon ?

- (1) 10 (2) 8
(3) 9 (4) 11

45. In a basket, all but 18 are roses. Likewise, all but 18 are flowers all but 10 are Champaka. How many flowers are there in all in the basket ?

- (1) 28 (2) 25
(3) 26 (4) 15

46. The area of a circle is 616 sq. cm. Find its circumference.

- (1) 44 cm (2) 88 cm
(3) 90 cm (4) 22 cm

47. The perimeter of a rectangle with length 16 cm is 56 cm. Find the length of the largest straight line that can be drawn in it.

- (1) 20 cm (2) 15 cm
(3) 18 cm (4) 22 cm

48. The area of a rhombus is 24 sq. cm. Length of one of its diagonals is 10 cm. The perimeter of this rhombus is

- (1) 30 cm (2) 30 cm
(3) 48 cm (4) 60 cm

49. If the selling price of 12 articles is equal to the cost price of 15 such articles, find the percentage of profit.

- (1) 25% (2) 30%
(3) 30% (4) 15%

50. When an article is sold, there is 10% loss. If the selling price of this article is increased by Rs. 50, there will be a profit of 15%. Find the cost price.

30. In ΔABC , $\angle A = 90^\circ$

(3) Rs. 150 (4) Rs. 200

51. If $2A = 3B$ and $3B = 7C$ then $A : C = ?$

(1) 3 : 7 (2) 7 : 2
(3) 35 : 6 (4) 6 : 7

52. In ΔABC , if $\angle ABC$ is a right angle, $\angle A : \angle C = 1 : 2$ then $\angle A = ?$

(1) 60° (2) 30°
(3) 45° (4) 15°

53. Ragu walks 70 m to the South. From there he walks 50m to the East, then again walks 110 m towards North. How far is he from his starting point ?

(1) 60 m (2) 60 m
(3) 70 m (4) 80 m

54. Four metal rods of lengths 78 cm, 104 cm, 117 cm and 169 cm are to be cut into parts of equal length. Each part must be as long as possible. What is the maximum number of pieces that can be cut ?

(1) 27 (2) 36
(3) 42 (4) 48

55. $\sqrt{5} - 3 = 10$

(1) 441 (2) 24
(3) 484 (4) 44

56. Find the greatest number which when divides 220, 300 and 1014 leaves the same remainder each time.

(1) 180 (2) 150
(3) 120 (4) 108

57. What is the least number which when decreased by 8 is divisible by 15, 12 and 10 ?

(1) 208 (2) 188
(3) 168 (4) 148

58. Four bells are ringing at intervals of 12, 18, 24 and 36 minutes. They start ringing simultaneously at 12 o'clock. Find when will they again ring together ?

(1) 1.30 p.m. (2) 2.15 p.m.
(3) 2.34 p.m. (4) 2.44 p.m.

59. In ΔABC , $\angle A = 90^\circ$, I is the incentre, find $\angle BIC$.

(1) 125° (2) 135°
(3) 105° (4) 11°

60. In ΔABC , $\angle A = 60^\circ$. If O is the circumcentre, $\angle BOC = ?$

(1) 150° (2) 120°
(3) 135° (4) 115°

61. A rectangular solid of metal has dimensions 50 cm, 40 cm and 72 cm. It is melted and recast into identical cubes each with edge 4 cm. Find the number of cubes formed.

(1) 3600 (2) 3000
(3) 360 (4) 300

62. The sum of the interior angles of a regular polygon is 34 right angles. Find the number of sides of the polygon.

(1) 14 (2) 12
(3) 10 (4) 15

63. Two unbiased dice with numbers 1 to 6 on their faces are tossed simultaneously. What is the probability of the appearance of some numbers on their top ?

(1) $\frac{1}{9}$ (2) $\frac{2}{15}$

(3) $\frac{1}{6}$ (4) $\frac{2}{3}$

64. Face value of a share is Rs. 100. Its market value is Rs. 110. Rate of dividend is 10% per annum. If a man invests Rs. 58,200 in this share, how much dividend does he get in that year ?

(1) Rs. 5,000 (2) Rs. 5,500
(3) Rs. 5,200 (4) Rs. 5,800

65. Find the sum of all natural numbers from 1 to 20.

(1) 210 (2) 200
(3) 170 (4) 250

66. How many three digit numbers can be formed from the digits 5, 7, 4, 3, 8 without repetition ?

(1) 10 (2) 20
(3) 60 (4) 40

67. How much of money is to be deposited to get an annual interest of ₹ 2,500 at 5% simple interest ?

(1) ₹ 5,000 (2) ₹ 60,000
(3) ₹ 10,000

(4) None of these

68. Find the median of 3, 3, 3, 1, 2, 4, 5, 6 and 6.

(1) 3 (2) 2
(3) 4 (4) 1

69. If $\begin{bmatrix} 2x+3 & 0 \\ 1 & 0 \end{bmatrix} \begin{bmatrix} 2 & 2 \\ 1 & 3 \end{bmatrix} = \begin{bmatrix} 6 & -2 \\ 0 & -1 \end{bmatrix}$

find x .
(1) 3 (2) 4
(3) 6 (4) -1

70. If $\sqrt{300} = 34.34$, $\sqrt{3} = 1.7$

(1) 1.07 (2) 0.1434
(3) 1.434 (4) 1.2

71. If $\sqrt{2}, \sqrt{3}, \sqrt{4}, \sqrt{5}$ among these, which one has the least value ?

(1) $\sqrt{200}$ (2) $\sqrt{5}$
(3) $\sqrt{5}$ (4) $\frac{1}{\sqrt{5}}$

72. Out of 64 candidates who have passed at least in one subject in a combined test in English and Hindi, 45 passed in English and 22 passed in Hindi. How many have passed in both the subjects ?

(1) 12 (2) 19
(3) 35 (4) 35

73. A car covers a distance of 60 km in 40 minutes. Find the speed of the car in km/hr.

(1) 70 km/hr (2) 90 km/hr
(3) 80 km/hr (4) 75 km/hr

74. Dinash goes from station P to station Q at the speed of 40 km/hr and returns from station Q to station P at the speed of 60 km/hr. Find his average speed for the whole journey.

(1) 50 km/hr (2) 45 km/hr
(3) 52 km/hr (4) 48 km/hr

75. Eight men can dig a field in 14 days by working 6 hours a day. In how many days can 7 men dig the same field, by working 8 hours a day ?

(1) 12 days (2) 12.5 days
(3) 14 days (4) 10 days

76. $30 = \sqrt{3^2 + 15^2 + 27^2 + 5^2 + 30^2} = ?$

(1) 27 (2) 38
(3) 29 (4) 30

77. What is the difference between the compound interest and simple interest for Rs. 70,000 for 3 years at 10% rate of interest?
 (1) Rs. 700 (2) Rs. 690
 (3) Rs. 750 (4) None of these

78. Find the HCF of $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{5}{6}$.
- (1) $\frac{6}{12}$ (2) $\frac{1}{12}$
 (3) $\frac{5}{6}$ (4) $\frac{6}{7}$

79. A cloth shop has announced a reduction in price by 20%. How many Kurtas priced at Rs. 28 should one buy to avail a total reduction of at least Rs. 40?
 (1) 6 (2) 5
 (3) 18 (4) 7

80. The angles of a quadrilateral are in arithmetic progression. The smallest angle is 15° . Find the largest angle.
 (1) 105° (2) 115°
 (3) 108° (4) 118°

**TEST OF LANGUAGE :
 ENGLISH**

Directions (81 - 85) : Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (4).

81. School children, who so far have had restricted access to (1) the few playgrounds in the city, must be (2) happy by the recent move, (3) No error (4)
82. The Director explained the theme (1) and the concept of the (2) International folk festival. (3) No error (4)
83. Residents have been planting the ornamental trees (1) outside their houses and in lawns

- (2) to add beauty and give their place a grand look. (3) No error (4)
84. The Government will soon make (1) it mandatory for all private hospitals (2) to notify infectious cases as soon as they are detected. (3) No error (4)
85. The process of revising figures of damage (1) to get additional compensation (2) has begun. (3) No error (4)

Directions (86 - 90) : Choose the most appropriate alternative to fill in the blank space in the given sentence.

86. His _____ nature would not let him leave his office before 5 p.m.
 (1) honest (2) selfish
 (3) crude (4) cruel
87. An accomplice is a partner in
 (1) business (2) crime
 (3) construction (4) study
88. Too many skyscrapers _____ the view along the beach.
 (1) reveal (2) make
 (3) obstruct (4) clear
89. These are your new shoes. _____?
 (1) Isn't it (2) Is it so
 (3) Are they (4) Aren't they
90. I wish I _____ singing as well as you do.
 (1) can (2) could
 (3) do (4) did

Directions (91 - 95) : In the following passage, at certain points you are given a choice of four words in a bracket, one of which fits the meaning of the passage. Select the number (1), (2), (3) or (4) related to their word as your answer.

Picasso is considered by many as the greatest painter of the modern age. There are stories and legends about him. Once, on a beach in Southern France, a little boy, obviously sent by his parents, approached Picasso (91) a sheet of paper and begged for a small auto-

graphed drawing. Picasso (92) for a moment then tore up the paper, took (93) colour crayons, drew designs on the boy's chest (94) neck and signed his 'work' and sent the youngster (95) to his parents.

91. (1) with (2) by
 (3) on (4) of
92. (1) painted (2) thought
 (3) stand (4) played
93. (1) back (2) aside
 (3) across (4) end
94. (1) for (2) and
 (3) at (4) but
95. (1) back (2) after
 (3) against (4) across

Directions (96 - 100) : Fill in the blank with an appropriate word(s) chosen from the given alternatives.

96. Two trucks collided _____ each other near the market.
 (1) into (2) with
 (3) on (4) over
97. You must _____ your hand-hits, if you want to join us.
 (1) give in (2) give
 (3) give away (4) give up
98. The committee has to submit its report _____ six months.
 (1) within (2) during
 (3) about (4) until
99. It will take five minutes to walk _____ the bridge.
 (1) around (2) about
 (3) across (4) through
100. There was some confusion _____ the agreement.
 (1) around (2) to
 (3) on (4) over

Directions (101 - 105) : Choose the alternative which is closest in meaning to the given word.

101. MUTUAL
 (1) separate (2) common
 (3) distrust (4) agreement
102. PRINCIPAL
 (1) axiom (2) rule
 (3) chief (4) interest
103. TENDER
 (1) gift (2) accept
 (3) resign (4) offer

Directions (104 - 106) :
Choose the alternative which is opposite in meaning to the given word.

104. TIE

- (1) link (2) loosen
(3) knot (4) fix

105. SPECIAL

- (1) common (2) cheap
(3) odd (4) peculiar

106. REFUSE

- (1) arrive (2) appear
(3) wait (4) receive

Directions (107 - 108) : In the following questions, four parts of a sentence are given in sequence as (1), (2), (3) and (4). Point out the choice which is not acceptable in standard English.

107. (1) Until you

- (2) remain restless
(3) you cannot
(4) concentrate

108. (1) Passing by the damage house

- (2) a brick was dislodged
(3) and fell
(4) on my shoulder

109. Point out the choice in which the word is correctly spelt.

- (1) Confidance
(2) Confidense
(3) Confydence
(4) Confidense

110. "He is a boy"

In the above sentence, name the part of speech of the word "is".

- (1) verb (2) adverb
(3) adjective (4) conjunction

111. The plural of "sheep" is

- (1) sheeps (2) sheepes
(3) sheep

(4) None of these

112. The noun form of the adjective "sharp" is

- (1) sharpness (2) sharpen
(3) sharped
(4) None of these

113. He is playing cricket.

- The tense of the verb in the above sentence is
(1) Present perfect

(2) Present indefinite

(3) Present continuous

(4) Past

114. A song has been sung by her.

The above sentence in the active voice is

- (1) She has sung a song.
(2) She is singing a song.
(3) She sang a song.
(4) She had sung a song.

115. The gender of TEACHER is

- (1) feminine
(2) Masculine
(3) common (4) neuter

Directions (116- 120) : Read the passage given below and then answer these questions based on it.

The prisoner awaited his chance. For three solid years he had schemed for this opportunity. Now that escape seemed so near at hand, those three years left some of their meaning. But he would never forget the laces, the close confinement, low diet and worse still the mental strain of those black days. Suddenly the warden did what he had hoped. He stopped to unlock the lower padlock. With a dull thud he slumped forward with keys in his hands. Swiftly the prisoner seized his keys, unlocked the cell and ran into the courtyard. It took him four seconds to reach the rope-ladder secretly placed there by his accomplices, five more to clamber over the wall and three more to jump into the waiting car to be whisked away to freedom. Even though he was guilty, the prisoner felt he had paid for his crime, for the man he had robbed three years ago was still a millionaire.

116. For what crime had the prisoner been punished ?

- (1) Murder (2) Arson
(3) Robbery (4) Kidnapping

117. When had the crime been committed ?

- (1) Just before the escape
(2) Three years earlier
(3) Long ago
(4) Day earlier

118. What did the prisoner suffer the most during imprisonment ?

- (1) Mental strain
(2) Absence from his family
(3) Physical torture
(4) Poor health

119. Who secretly placed there the rope-ladder ?

- (1) Prisoner's relatives
(2) Warden
(3) Prisoner's accomplices
(4) Sentry

120. Who slumped forward with a dull thud ?

- (1) The millionaire
(2) The warden
(3) The prisoner
(4) The visitor