



TARA INSTITUTE

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TEST T1-4

Time Allowed: 90 MINUTES
Maximum Marks: 100

NAME: _____

MARKS OBTAINED : _____

EXAM CENTRE. : _____

REMARKS : _____

QUANTITATIVE APTITUDE

- N number of persons decide to raise ₹ 3 lakhs by equal contributions from each. If they contributed ₹ 50 each extra, the contribution would be ₹ 3.25 lakhs. How many persons are there?
(a) 600 (b) 400
(c) 450 (d) Cannot be determined
(e) None of these
- The average of the first and the second of three numbers is 15 more than the average of the second and the third of these numbers. What is the difference between the first and the third of these three numbers?
(a) 15 (b) 45
(c) 60 (d) Data inadequate
(e) None of these
- The average of Suresh's marks in English and History is 55. His average of marks in English and Science is 65. What is the difference between the marks which he obtained in History and Science?
(a) 40 (b) 60
(c) 20 (d) Data inadequate
(e) None of the above
- The average of four consecutive even numbers is one-fourth of the sum of these numbers. What is the difference between the first and the last number?
(a) 4 (b) 6
(c) 2 (d) Cannot be determined
(e) None of these
- The average of three consecutive odd numbers is 14 more than one-third of the first of these numbers, what is the last of these numbers?
(a) 17 (b) 19
(c) 15 (d) Data inadequate
(e) None of these
- Nine men went to a hotel. 8 of them spent ₹ 3 each over their meals and the ninth spent ₹ 2 more than the average expenditure of all the nine. The total money spent by all of them was
(a) ₹ 26 (b) ₹ 40
(c) ₹ 29.25 (d) ₹ 27
(e) None of these
- A cricketer whose bowling average is 12.4 runs per wicket takes 5 wickets for 26 runs and thereby decreases his average by 0.4. The number of wickets taken by him till the last match was:
(a) 64 (b) 72
(c) 80 (d) 85
(e) None of these
- A batsman has scored an average of 46 runs for a certain number of innings played in England. When he came back to India, he played another two test matches of two innings each and scored at an average of 55 runs. For the innings in England and in India taken together, he has improved his average by 2 runs over the matches played in England. Find the number of innings played in England.
(a) 12 (b) 13
(c) 14 (d) 15
(e) None of these

9. There were 35 students in a hostel. Due to the admission of 7 new students, the expenses of mess were increased by ₹. 42 per day while the average expenditure per head diminished by Re 1. What was the original expenditure of the mess?
 (a) ₹ 400 (b) ₹ 420
 (c) ₹ 445 (d) ₹ 465
 (e) None of these
10. A family consists of grandparents, parents and three grandchildren. The average age of the grandparents is 67 years, that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?
 (a) $28\frac{4}{7}$ years (b) $31\frac{5}{7}$ years
 (c) $32\frac{1}{7}$ years (d) None of these
 (e) None of these
11. A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find his average after 17th inning.
 (a) 36 (b) 39
 (c) 42 (d) 45
 (e) None of these
12. The mean of 30 values was 150. It was detected on rechecking that one value 165 was wrongly copied as 135 for the computation of the mean. Find the correct mean.
 (a) 151 (b) 149
 (c) 152 (d) None of these
 (e) None of these
13. In an examination, a pupil's average marks were 63 per paper. If he had obtained 20 more marks for his Geography paper and 2 more marks for his History paper, his average per paper would have been 65. How many papers were there in the examination?
 (a) 8 (b) 9
 (c) 10 (d) 11
 (e) None of these
14. A car owner buys petrol at ₹ 7.50, ₹ 8.00 and ₹ 8.50 per litre for three successive years. What approximately is his average cost per litre of petrol if he spends ₹ 4000 each year ?
 (a) ₹ 8 (b) ₹ 9
 (c) ₹ 7.98 (d) ₹ 8.50
 (e) None of these
15. A batsman makes a scores of 98 runs in his 19th inning and thus increases his average by 4. What is his average after 19th inning ?
 (a) 22 (b) 24
 (c) 28 (d) 26
 (e) None of these
16. The average of 5 consecutive even numbers A, B,C,D and E is 52. What is the product of B and E?
 (a) 2916 (b) 2988
 (c) 3000 (d) 2800
 (e) None of these
17. The average of 5 consecutive numbers A, B, C, D and E is 48. What is the product of A and E?
 (a) 2162 (b) 2208
 (c) 2024 (d) 2800
 (e) None of these
18. Out of the three given numbers, the first number is twice the second and thrice the third. If the average of the three numbers is 121, what is the difference between the first and the third number?
 (a) 132 (b) 99
 (c) 77 (d) 144
 (e) None of these
19. The average of 5 consecutive odd numbers A, B, C, D and E is 41. What is the product of A and E?
 (a) 1977 (b) 1517
 (c) 1665 (d) 1591
 (e) None of these
20. The average of 5 consecutive even number A, B, C, D and E is 34. What is the product of B and D?
 (a) 1088 (b) 1224
 (c) 1368 (d) 1152
 (e) None of these
21. In a mixture of 45 litres, the ratio of milk and water is 4 : 1. How much water must be added to make the mixture ratio 3 : 2 ?
 (a) 72 litres (b) 24 litres
 (c) 15 litres (d) 1.5 litres
22. In three vessels, the ratio of water and milk is 6 : 7, 5 : 9 and 8 : 7, respectively. If the mixtures of the three vessels are mixed together, then what will be the ratio of water and milk?
 (a) 2431 : 3781 (b) 3691 : 4499
 (c) 4381 : 5469 (d) None of these



23. A mixture (40 litres) contains tonic and water in the ratio 3 : 1. To make the ratio 7 : 2, how much additional amount of water is required?
 (a) 5 litres (b) 4 litres
 (c) 3 litres (d) 2 litres
 (e) None of these
24. How many kg of tea worth ₹ 25 per kg must be blended with 30 kg of tea worth ₹ 30 per kg so that by selling the blended variety at ₹ 30 per kg there should be a gain of 10%?
 (a) 32 kg (b) 40 kg
 (c) 36 kg (d) 42 kg
 (e) None of these
25. How many kg of sugar costing ₹ 5.75 per kg should be mixed with 75 kg of cheaper sugar costing ₹ 4.50 per kg so that the mixture is worth ₹ 5.50 per kg ?
 (a) 350 kg (b) 300 kg
 (c) 250 kg (d) 325 kg
 (e) None of these
26. Alcohol cost ₹ 3.50 per litre and kerosene oil cost ₹ 2.50 per litre. In what proportion these should be mixed so that the resulting mixture may be ₹ 2.75 per litre?
 (a) 2 : 5 (b) 1 : 3
 (c) 4 : 7 (d) 2 : 3
 (e) None of these
27. Pure milk costs ₹ 3.60 per litre. A milkman adds water to 25 litres of pure milk and sells the mixture at ₹ 3 per litre. How many litres of water does he add?
 (a) 2 litres (b) 5 litres
 (c) 7 litres (d) 11 litres
 (e) None of these
28. The number of millilitres of water added to reduce 9 ml of aftershave lotion, containing 50% alcohol, to a lotion containing 30% alcohol is
 (a) 3 (b) 4
 (c) 5 (d) 6
 (e) None of these
29. An empty fuel tank to a car was filled with A type of petrol. When the tank was half empty, it was filled with B type of petrol. Again when the tank was half empty, it was filled with A type of petrol. When the tank was half empty again, it was filled with B type of petrol. At this time, what was the percentage of A type of petrol in the tank?
 (a) 50% (b) 40%
 (c) 33.5% (d) 37.5%
 (e) None of these
30. A mixture of glycerine and water contains 35% glycerine by weight. Twenty five grams of water is added to such 100 grams of mixture. What % of glycerine by weight is there in the new mixture?
 (a) 25 (b) 23
 (c) 29 (d) 28
 (e) None of these
31. In what ratio must water be mixed with milk to gain $16\frac{2}{3}\%$ on selling the mixture at cost price?
 (a) 1 : 6 (b) 6 : 1
 (c) 2 : 3 (d) 4 : 3
 (e) None of these
32. A jar full of whisky contains 40% alcohol. A part of this whisky is replaced by another containing 19% alcohol and now the percentage of alcohol was found to be 26%. The quantity of whisky replaced is:
 (a) $\frac{1}{3}$ (b) $\frac{2}{3}$
 (c) $\frac{2}{5}$ (d) $\frac{3}{5}$
 (e) None of these
33. A mixture consists of 15 parts of coffee, purchased at ₹ 2.10 per kg and 1 part of chicory, purchased at 98 paise per kg. If it is sold at ₹ 2.25 per kg, what profit would be made on the sale of 5 quintals?
 (a) ₹ 100 (b) ₹ 105
 (c) ₹ 110 (d) ₹ 115
 (e) None of these
34. How many litres of pure alcohol must be added to 10 litres of mixture which is 15% alcohol to make a mixture which will be 25% alcohol?
 (a) $\frac{5}{4}$ (b) $\frac{5}{2}$
 (c) $\frac{3}{4}$ (d) $\frac{4}{3}$
 (e) None of these
35. How many kg of custard powder costing ₹ 40 kg must be mixed with 16 kg of custard powder costing ₹ 55 kg so that 25% may be gained by selling the mixture at ₹ 60 kg?
 (a) 11 kg (b) 14 kg
 (c) 12 kg (d) 20 kg
 (e) None of these



36. The respective ratio of the present ages of Swati and Trupti is 4 : 5. Six years hence the respective ratio of their ages will be 6 : 7. What is the difference between their ages?
 (a) 2 years (b) 3 years
 (c) 4 years (d) Cannot be determined
 (e) None of these
37. The fourth proportional to 5, 8, 15 is:
 (a) 18 (b) 24
 (c) 19 (d) 20
 (e) None of these
38. If $0.75 : x :: 5 : 8$, then x is equal to:
 (a) 1.12 (b) 1.20
 (c) 1.25 (d) 1.30
39. If ₹ 782 be divided into three part, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the first part is :
 (a) ₹ 182 (b) ₹ 190
 (c) ₹ 196 (d) ₹ 204
 (e) None of these
40. There are 240 doctors and nurses at a hospital. If the ratio of doctors to nurses is 5 : 7, then the nurses at the hospital are
 (a) 20 (b) 60
 (c) 100 (d) 140
 (e) None of these

REASONING ABILITY

41. A man said to a woman, “Your mother’s husband’s sister is my aunt.” How is the woman related to the man ?
 (a) Granddaughter (b) Daughter
 (c) Sister (d) Aunt
 (e) None of these
42. Introducing Ramprakash, Nilama said, “His brother’s father is the only son of my grand father”. How Nilama is related to Ramprakash?
 (a) Sister (b) Daughter
 (c) Mother (d) Niece
 (e) None of these
43. Vinod is the brother of Bhaskar. Manohar is the sister of Vinod. Biswal is the brother of Preetam and Preetam is the daughter of Bhaskar. Who is the uncle of Biswal?
 (a) Bhaskar (b) Manohar
 (c) Vinod (d) Insufficient data
 (e) None of these
44. A man said to a woman, “Your brother’s only sister is my mother.” What is the relation of the woman with the maternal grandmother of that man?
 (a) Mother (b) Sister
 (c) Niece (d) Daughter
 (e) None of these
45. Pointing to a photograph, a man said, “ I have no brother or sister but that man’s father is my father’s son.” Whose photograph was it?
 (a) His own (b) His son’s
 (c) His father’s (d) His nephew’s
 (e) None of these
46. X' is the wife of 'Y' and 'Y' and Y' is the brother of 'Z' , 'Z' is the son of 'P' . How is 'P' related to 'X'
 (a) Sister (b) Aunt
 (c) Brother (d) Father
 (e) None of these
47. Ajay is the brother of Vijay. Mili is the sister of Ajay. Sanjay is the brother of Rahul and Mehul is the daughter of Vijay. Who is Sanjay's Uncle ?
 (a) Rahul (b) Ajay
 (c) Mehul (d) Data inadequate
 (e) None of these
48. If S — T means 'S' is the wife of 'T' is S + T means 'S' is the daughter of 'T' and S T means 'S' is the son of 'T' What will M + J K means ?
 (a) 'K' is the father of 'M'
 (b) M' is the grand daughter
 (c) 'J' is wife of 'K'
 (d) 'K' and 'M' are brothers
 (e) None of these
49. If A + B means A is the mother of B; A – B means A is the brother B; A % B means A is the father of B and A × B means A is the sister of B, which of the following shows that P is the maternal uncle of Q?
 (a) Q – N + M × P (b) P + S × N – Q
 (c) P – M + N × Q (d) Q – S % P
 (e) None of these



50. Pointing to Kapil, shilpa said, His mothers's brother is the father of my son Ashish" How is kapil related to shilpa

- (a) Sister-in-law (b) Nephew
(c) Niece (d) Aunt
(e) None of these

Directions (Qs. 51-55) : are based on the following statements.

- (i) Seeta, Rajinder and Surinder are children of Mr. and Mrs. Maudgil.
(ii) Renu, Raja and Sunil are children of Mr. and Mrs. Bhaskar.
(iii) Sunil and Seeta are married and Ashok and Sanjay are their children.
(iv) Geeta and Rakesh are children of Mr. and Mrs. Jain.
(v) Geeta is married to Surinder and has three children named Rita, Sonu and Raju.

Read above statements carefully and answer the following questions :

51. How is Rajinder related to Raju?
(a) Brother (b) Uncle
(c) Brother-in-law (d) Cousin
52. How is Rajinder related to Ashok?
(a) Brother-in-law (b) Father-in-law
(c) Causin (d) Maternal Uncle
53. How is Rakesh related to Surinder?
(a) Brother (b) Cousin
(c) Brother-in-law (d) Maternal uncle
54. How is Rakesh related to Rita?
(a) Brother (b) Cousin
(c) Uncle (d) Maternal uncle
55. Sunil and Rakesh are related as
(a) Brothers (b) Cousins
(c) Uncle and Cousin (d) Brother-in-law

Directions (Qs. 56- 60): In the following questions, the symbols @, ©, ★, \$ and # are used with the following meaning:

'P @ Q' means 'P is neither smaller than nor equal to Q'.

'P © Q' means 'P is not smaller than Q'.

'P★Q' means 'P is not greater than Q'.

'P \$ Q' means 'P is neither smaller than nor greater than Q'.

'P # Q' means 'P is neither greater than nor equal to Q'.

Now, in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true? Give answer

- (a) if only conclusion I is true.
(b) if only conclusion II is true.
(c) if either conclusion I or II is true.
(d) if neither conclusion I nor II is true.
(e) if both conclusions I and II are true.

56. **Statements:**

Z # N, F © N, F ★ K

Conclusion :

I. K \$ N

II. K @ Z

57. **Statements:**

D \$ T, T © M, M # K

Conclusion:

I. M \$ D

II. D @ M

58. **Statements:**

W © A, B ★ A, B @ M

Conclusions:

I. B # W

II. W \$ B

59. **Statements:**

J ★ M, M \$ N, N # T

Conclusions:

I. T @ J

II. T \$ J

60. **Statements:**

V ★ F, F @ R, R © G

Conclusions:

I. G # V

II. G @ V

Directions (Qs. 61-65) : In the questions given below, certain symbols are used with the following meanings:

P \$ Q means P is neither equal to nor smaller than Q.

P © Q means P is not smaller than Q.

P * Q means P is neither greater nor smaller than Q.

P # Q means P is neither greater than nor equal to Q.

P @ Q means P is not greater than Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true. Give answer

- (a) if only conclusion I is true.
(b) if only conclusion II is true.
(c) if either conclusion I or II is true.
(d) if neither conclusion I nor II is true.
(e) if both conclusions I and II are true.



61. **Statements:**
 $Z @ R, R \odot D, D \# T$
Conclusions:
 I. $D \# Z$
 II. $Z \# T$
62. **Statements:**
 $Q \# P, P @ F, F * M$
Conclusions:
 I. $M \$ P$
 II. $P * M$
63. **Statements:**
 $E \$ J, J \# H, H \odot M$
Conclusions:
 I. $E \$ M$
 II. $J \$ M$
64. **Statements:**
 $R \odot P, P \$ M, M @ D$
Conclusions:
 I. $D \$ R$
 II. $M \# R$
65. **Statements:**
 $F \# K, K \odot D, N @ D$
Conclusions:
 I. $N * K$
 II. $N \# K$
66. In a row at a bus stop, A is 7th from the left and B is 9th from the right. Both of them interchange their positions and thus A becomes 11th from the left. How many people are there in that row?
 (a) 18 (b) 19
 (c) 20 (d) 21
 (e) None of these
67. In a class of 60, where girls are twice that of boys, kamal ranked seventeenth from the top. If there are 9 girls ahead of kamal, how many boys are after him in rank ?
 (a) 3 (b) 7
 (c) 12 (d) 23
 (e) None of these
68. Ravi is 7 ranks ahead of Sumit in a class of 39. If Sumit's rank is seventeenth from the last, what is Ravi's rank from the start?
 (a) 14th (b) 15th
 (c) 16th (d) 17th
 (e) None of these
69. In a queue, A is eighteenth from the front while B is sixteenth from the back. If C is twentyfourth from the front and is exactly in the middle of A and B, then how many persons are there in the queue ?
 (a) 45 (b) 46
 (c) 47 (d) 48
 (e) None of these
70. In a row of 21 girls, when Monika was shifted by four place towards the right, she became 12th from the left end. What was her earlier positions from the right end of the row ?
 (a) 9th (b) 10th
 (c) 11th (d) 14th
 (e) None of these
- Directions (Qs. 5-9) :** Below are given some symbols indicating some relations given against them. Read these symbols carefully and then answer the questions given below. There are four options to each questions of which only one is correct. Find the correct answer
 Δ = greater than ; $+$ = not greater than
 θ = equal to ; ϕ = not equal to
 \times = less than, \square = not less than
71. $a \times b \theta c$ implies that
 (a) $a \square c \theta b$ (b) $b \times a \square c$
 (c) $c \square b + a$ (d) $a \phi b \square c$
72. $a \square b \Delta c$ implies that
 (a) $a + \square b \Delta c$ (b) $a \times b - c$
 (c) $a \Delta b \times c$ (d) $a + b \times c$
73. $a \Delta b \Delta c$ does not imply
 (a) $b + a \Delta c$ (b) $b \Delta a \theta c$
 (c) $c + b \phi a$ (d) $c + b \times a$
74. $a \times b \theta c$ does not mean
 (a) $a \Delta b \phi c$ (b) $a + b \theta c$
 (c) $a \phi b \theta c$ (d) $b \theta c \square a$
75. $c + b \times a$ means
 (a) $a \times b \theta c$ (b) $c \Delta b \Delta a$
 (c) $c \times b \times a$ (d) $b \theta c \Delta a$
- DIRECTIONS(Qs. 76-80) :** In each of the following questions, four alternatives are given, out of which three are alike in a certain way while one is different. Choose the
76. (a) KP (b) MN
 (c) HR (d) GT
77. (a) Island (b) Coast
 (c) Harbour (d) Oasis
78. (a) TU (b) DE
 (c) MO (d) PQ
79. (a) English (b) Encyclopedia
 (c) Russian (d) German
80. (a) VWY (b) QRT
 (c) LMO (d) JKL



ENGLISH LANGUAGE

81. ____ chair you are sitting on is not very comfortable.
(a) a (b) an
(c) the (d) no article needed
82. There is ____ pencil on the desk.
(a) a (b) an
(c) the (d) no article needed
83. ____ fish is very high in protein.
(a) a (b) an
(c) the (d) no article needed
84. ____ dogs and ____ cats are popular pets.
(a) the, a (b) a, the
(c) the, the (d) no articles needed
85. ____ medicine that you gave me really helped my cough.
(a) a (b) an
(c) the (d) no article needed
86. ____ igloo is ____ house made of ____ ice.
(a) an, the, no article (b) an, a, no article
(c) the, a, no article (d) no articles needed
87. He wants to buy ____ warm winter coat.
(a) a (b) an
(c) the (d) no article needed
88. ____ children next door got dressed up last night.
(a) a (b) an
(c) the (d) no article needed
89. ____ coffee isn't very good for you.
(a) a (b) an
(c) the (d) no article needed
90. When ____ car behind me gets too close to my rear bumper, I get angry.
(a) a (b) an
(c) the (d) no article needed

COMPUTER KNOWLEDGE

91. _____ is the part of the computer that does the arithmetical calculations.
(a) Memory (b) OS
(c) CPU (d) ALU
(e) None of these
92. A ____ can make it easier to play games.
(a) mouse (b) Joystick
(c) keyboard (d) pen
(e) None of these
93. File extensions are used in order to ____
(a) name the file
(b) ensure the filename is not lost
(c) identify the file
(d) identify the file type
(e) None of these
94. Passwords enable users to ____
(a) get into the system quickly
(b) make efficient use of time
(c) retain confidentiality of files
(d) simplify file structures
(e) None of these
95. In page preview mode ____
(a) You can see all pages of your document
(b) You can only see the page you are currently working on
(c) You can only see pages that do not contain graphics
(d) You can only see the title page of your document
(e) None of these
96. To navigate to a new Web page for which you know the URL, type that URL in the browser's ____ and press Enter
(a) Address bar (b) Domain bar
(c) Address button (d) Name button
(e) None of these



97. The CPU, also called the _____ when talking about PCs, does the vast majority of the processing for a computer.
- (a) macroprocessor (b) RAM
(c) Memory System (d) microprocessor
(e) None of these
98. A computer's type, processor, and operating system define its —
- (a) brand (b) size
(c) platform (d) speed
(e) None of these
99. A kiosk—
- (a) is data organized and presented in a manner that has additional value beyond the value of the data itself.
(b) combines microscopic electronic components on a single integrated circuit that processes bits according to software instructions.
(c) is a computer station that provides the public with specific and useful information and services.
(d) describes a computer's type, processor, and operating system
(e) None of these
100. The part of the CPU that accesses and decodes program instructions, and coordinates the flow of data among various system components is the—
- (a) ALU (b) control unit
(c) megahertz (d) motherboard
(e) None of these

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ANSWERS

1 (e)	2 (e)	3 (c)	4 (b)	5 (d)	6 (c)	7 (d)	8 (c)
9 (b)	10 (b)	11 (b)	12 (a)	13 (d)	14 (c)	15 (d)	16 (d)
17 (e)	18 (a)	19 (c)	20 (d)	21 (c)	22 (b)	23 (d)	24 (c)
25 (b)	26 (b)	27 (b)	28 (d)	29 (d)	30 (d)	31 (a)	32 (b)
33 (c)	34 (d)	35 (b)	36 (b)	37 (b)	38 (b)	39 (d)	40 (d)
41 (c)	42 (a)	43 (c)	44 (d)	45 (b)	46 (d)	47 (d)	48 (b)
49 (c)	50 (b)	51 (b)	52 (d)	53 (c)	54 (d)	55 (d)	56 (b)
57 (c)	58 (c)	59 (a)	60 (d)	61 (d)	62 (c)	63 (d)	64 (b)
65 (c)	66 (b)	67 (c)	68 (c)	69 (c)	70 (d)	71 (d)	72 (a)
73 (b)	74 (a)	75 (b)	76 (c)	77 (d)	78 (c)	79 (b)	80 (d)
81 (c)	82. (a)	83. (d)	84. (d)	85. (c)	86. (b)	87. (a)	88. (c)
89. (d)	90. (c)	91. (d)	92. (b)	93. (d)	94. (c)	95. (b)	96. (a)
97. (d)	98. (d)	99. (c)	100. (b)				

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