



TARA INSTITUTE

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TEST T2-4-E

Time Allowed: 75 MINUTES
Maximum Marks: 90

NAME: _____

MARKS OBTAINED : _____

EXAM CENTRE. : _____

REMARKS : _____

QUANTITATIVE APTITUDE

- The number of ways in which four letters of the word MATHEMATICS can be arranged is given by
(a) 136 (b) 192
(c) 1680 (d) 2454
(e) None of these
- ABCD is a convex quadrilateral. 3, 4, 5 and 6 points are marked on the sides AB, BC, CD and DA respectively. The number of triangles with vertices on different sides is
(a) 270 (b) 320
(c) 282 (d) 342
(e) None of these
- In a polygon no three diagonals are concurrent. If the total number of points of intersection of diagonals interior to the polygon be 70 then the number of diagonals of the polygon is
(a) 20 (b) 28
(c) 8 (d) 30
(e) None of these
- The number of numbers greater than a million that can be formed with the digits 2, 3, 0, 3, 4, 2 and 3 is
(a) 360 (b) 340
(c) 370 (d) 350
(e) None of these
- Total number of four digit odd numbers that can be formed using 0, 1, 2, 3, 5, 7 (using repetition allowed) are
(a) 216 (b) 375
(c) 400 (d) 720
(e) None of these
- If ${}^n P_r = {}^n P_{r+1}$ and ${}^n C_r = {}^n C_{r-1}$, then the values of n and r are
(a) 4, 3 (b) 3, 2
(c) 4, 2 (d) 3, 5
(e) None of these
- If ${}^n P_r = 720$ ${}^n C_r$, then r is equal to
(a) 3 (b) 7
(c) 6 (d) 4
(e) None of these
- There are 10 lamps in a hall. Each of them can be switched on independently. The number of ways in which the hall can be illuminated is
(a) 10^2 (b) 1023
(c) 2^{10} (d) 10!
(e) None of these
- The number of ways in which 52 cards can be divided into 4 sets, three of them having 17 cards each and the fourth one having just one card
(a) $\frac{52!}{(17!)^3}$ (b) $\frac{52!}{(17!)^3 3!}$
(c) $\frac{51!}{(17!)^3}$ (d) $\frac{51!}{(17!)^3 3!}$
(e) None of these

10. The number of three digit numbers having only two consecutive digits identical is
 (a) 153 (b) 162
 (c) 168 (d) 163
 (e) None of these
11. In a hockey championship there were 153 matches played. Every two teams played one match with each other. The number of teams participating in the championship is :
 (a) 18 (b) 19
 (c) 17 (d) 16
 (e) None of these
12. Find the number of ways in which 8064 can be resolved as the product of two factors ?
 (a) 20 (b) 21
 (c) 22 (d) 24
 (e) None of these
13. In how many ways can twelve girls be arranged in a row if two particular girls must occupy the end places?
 (a) $\frac{10!}{2!}$ (b) 12!
 (c) $10! \times 2!$ (d) $\frac{12!}{2!}$
 (e) None of these
14. In how many ways can a selection of 5 letters be made out of 5 A's, 4 B's, 3 C's, 2 D's and 1 E's ?
 (a) 70 (b) 71
 (c) ${}^{15}C_5$ (d) ${}^{15}P_5$
 (e) None of these
15. In how many ways can the eight directors, the Vice-chairman and the Chairman of a firm be seated at a round-table, if the Chairman has to sit between the Vice-chairman and the Director?
 (a) $9! \times 2$ (b) $2 \times 8!$
 (c) $2 \times 7!$ (d) $3 \times 8!$
 (e) None of these
16. Ramesh is twice as good a workman as Sunil and finishes a piece of work in 3 hours less than Sunil. In how many hours they together could finish the same piece of work?
 (a) $2\frac{1}{3}$ (b) 2
 (c) $1\frac{2}{3}$ (d) 4
 (e) None of these
17. Sunil and Pradeep can complete a work in 5 days and 15 days respectively. They both work for one day and then Sunil leaves. In how many days in the remaining work completed by Pradeep ?
 (a) 11 days (b) 12 days
 (c) 15 days (d) 8 days
 (e) None of these
18. Suresh can finish a piece of work by himself in 42 days. Mahesh, who is $\frac{1}{5}$ times more efficient as Suresh, requires X days to finish the work by working all by himself. Then what is the value of X ?
 (a) 25 days (b) 30 days
 (c) 35 days (d) 20 days
19. Ganpat, Yogesh and Bhagwat can do a job in 15, 20 and 30 days respectively. In how many days can the job be finished if they work together ?
 (a) $20/3$ days. (b) $10/3$ days
 (c) $11/3$ days (d) $16/3$ days
 (e) None of these
20. If 12 men or 15 women or 18 boys can do a piece of work in 15 days of 8 hours each, find how many men assisted by 5 women and 6 boys will finish the same work in 16 days of 9 hours each.
 (a) 6 men (b) 2 men
 (c) 8 men (d) 4 men
 (e) None of these
21. A can knit a pair of socks in 3 days. B can knit the same thing in 6 days. If they are knitting together, in how many days will they knit two pairs of socks?
 (a) 4 days (b) 2 days
 (c) $4\frac{1}{2}$ days (d) 3 days
 (e) None of these
22. A, B, C can do a piece of work in 56, 84, 280 hours respectively. If they work together, how many hours will they take?
 (a) 30 hours (b) 20 hours
 (c) 10 hours (d) 15 hours
23. A group of US planes can completely destroy Baghdad in 7 days. However 12 planes develop technical faults. The remaining now can do the job in 10 days. Find the original group strength.
 (a) 40 planes (b) 45 planes
 (c) 50 planes (d) 30 planes



24. 12 men take 18 days to complete a job whereas 12 women in 18 days can complete $\frac{3}{4}$ of the same job. How many days will 10 men and 8 women together take to complete the same job?
- (a) 6 (b) $13\frac{1}{2}$
 (c) 12 (d) Data inadequate
 (e) None of these
25. Seven men and four boys can complete a work in 6 days. A man completes double the work than a boy. In how many days will 5 men and 4 boys complete the work?
- (a) 5 (b) 4
 (c) 6 (d) Cannot be determined
 (e) None of these
26. A hot pipe takes 3 minutes longer to fill a tank than the cold pipe. Together they take 6 minutes 40 seconds. Time taken by the cold pipe alone to fill the tank is :
- (a) 6 minutes (b) 18 minutes
 (c) 9 minutes (d) 12 minutes
 (e) None of these
27. A cistern has a leak which would empty it in 8 hours. A tap is turned on which admits 6 litres a minute into the cistern and it is now emptied in 12 hours. The cistern can hold
- (a) 7860 litres (b) 6840 litres
 (c) 8640 litres (d) 6045 litres
 (e) None of these
28. Two pipes P and Q would filled a cistern in 24 hours and 32 hours respectively . If both pipes are opened together, find when the first pipe must be turned off so that the cistern may be just filled in 16 hours?
- (a) 2 hrs (b) 4 hrs
 (c) 8 hrs (d) 12 hrs
 (e) None of these
29. If two pipes function simultaneously, the reservoir is filled in 12 hrs .One pipe fills the reservoir 10 hrs faster than the other .How many hours does the faster pipe take to fill the reservoir ?
- (a) 10 hrs (b) 20 hrs
 (c) 30 hrs (d) 40 hrs
 (e) None of these
30. A tank is normally filled in 8 hrs but takes 2 hrs longer to fill because of a leak in its bottom . If the cistern is full, in how many hrs will the leak empty it ?
- (a) 40 hrs (b) 20 hrs
 (c) 60 hrs (d) 30 hrs
 (e) None of these

REASONING ABILITY

Directions (Qs. 31-35) : Study the following information to answer the given questions.

A word arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of the input and the steps of rearrangement.

Input : going but for crept te light sir

Step I : crept going but for te light sir

Step II : crept going light but for te sir

Step III : crept going light but for sir te
 (Step III is the last step for this input)

As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

31. **Input:** the in car as he may me
 Which of the following will be the third step for this input?
- (a) car the in as he may me
 (b) car may the as in he me
 (c) car as may he the in me
 (d) car may the in as he me
 (e) None of these
32. If the second step of an input is 'clever remand window sales batch tiger never' which of the following will be its sixth step?
- (a) clever remand window batch sales tiger never
 (b) window remand clever sales batch tiger never
 (c) batch never sales tiger clever remand window
 (d) clever remand window tiger batch sales never
 (e) It cannot have sixth step.
33. If the input is 'true se veto be nuke my like', which of the following will be the IV step?



- (a) like nuke true veto be se my
 (b) be my like se true veto nuke
 (c) be my se like true veto nuke
 (d) veto true nuke like so be my
 (e) Cannot be determined
34. **Input:** 'more fight cats cough sough acts idea'.
 Which of the following steps would be the last step for this input?
 (a) III (b) IV
 (c) V (d) VI
 (e) VII
35. If the V step of an input is 'more pure soft cat not so sir at', what will be the II step?
 (a) at so more pure cat not soft sir
 (b) more pure soft so sir cat at not
 (c) more pure soft cat so sir at not
 (d) more so sir soft pure cat at not
 (e) Cannot be determined
- Directions (Qs. 36-40) :** Study the following information carefully and answer the given questions:
 A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.
Input : sky forward 17 over 95 23 come 40
Step I : come sky forward 17 over 95 23 40
Step II : come 95 sky forward 17 over 23 40
Step III : come 95 forward sky 17 over 23 40
Step IV : come 95 forward 40 sky 17 over 23
Step V : come 95 forward 40 over sky 17 23
Step VI : come 95 forward 40 over 23 sky 17
 Step VI is the last step of the rearrangement of the above input.
 As per the rules followed in the above steps, answer the following questions.
36. **Input :** machine hire for 19 against 85 2146
 Which of the following will be step II?
 (a) against 85 hire machine for 19 21 46
 (b) against 85 machine 19 hire for 21 46
 (c) against 85 machine hire for 19 21 46
 (d) Cannot be determined
 (e) None of these
37. **Input :** box at 20 53 62 gift now 32
 Which of the following is step IV?
 (a) at 62 box 53 gift 32 20 now
 (b) at 62 box 53 gift 32 now 20
 (c) at 62 box 53 gift 20 now 32
 (d) Cannot be determined
 (e) None of these
38. **Input:** on at 33 27 42 sky mat 51
 Which of the following steps will be the last?
 (a) VI (b) VII
 (c) V (d) VIII
 (e) None of these
39. Step III of an input is:
 bring 63 desk 11 29 together fight 30
 Which of the following steps will be the last but one?
 (a) VI (b) VII
 (c) VIII (d) V
 (e) None of these
40. Step II of an input is:
 earn 72 31 46 higher goal 20 more
 Which of the following is definitely the input?
 (a) 46 72 31 earn higher goal 20 more
 (b) 20 31 72 46 higher goal earn more
 (c) higher 20 31 72 46 goal earn more
 (d) Cannot be determined
 (e) None of these
- Directions (Qs. 41-45) :** Study the following information carefully and answer the questions given below:
 There are six teachers A, B, C, D, E and F in a school. Each of the teachers teaches two subjects, one compulsory subject and the other optional subject. D's optional subject is History while three others have it as compulsory subject. E and F have Physics as one of their subjects. F's compulsory subject is Mathematics which is an optional subject of both C and E. History and English are A's subjects but in terms of compulsory and optional subjects, they are reverse of those of D's. Chemistry is an optional subject of any one of them. There is only one female teacher in the school who has English as her compulsory subject.
41. What is C's compulsory subject ?
 (a) History (b) Physics
 (c) Chemistry (d) English



42. Who is a female member in the group ?
 (a) A (b) B
 (c) C (d) D
43. Who among the following has same optional subjects as that of the compulsory subject of F?
 (a) D (b) B
 (c) A (d) C
44. Disregarding which is compulsory and which is the optional subject, who has the same two subjects combination as F ?
 (a) A (b) B
 (c) E (d) D
45. Which of the following groups of teachers has History as the compulsory subject?
 (a) A, C and D (b) B, C and D
 (c) C and D (d) A, B and C
- Directions :** In each of the questions below are given four statements followed by three conclusions numbered II, II & III. You have to take the given statements to be true even if they seem to be at variance from 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.
46. **Statements:** All chilies are garlics.
 Some garlics are onions.
 All onions are potatoes.
 No potato is ginger.
Conclusions: I. No onion is ginger.
 II. Some garlics are potatoes.
 III. Some chillies are potatoes.
 (a) Only I follows
 (b) Only II follows
 (c) Only I & II follow
 (d) Only I & II follow
 (e) All follow
47. **Statements:** Some keys are locks.
 Some locks are numbers.
 All numbers are letters.
 All letters are words.
Conclusions: I. Some locks are letters.
 II. Some words are numbers.
 III. All numbers are words.
 (a) Only I & II follow
 (b) Only II & III follow
 (c) Only I & III follow
 (d) Only I & either II or III follow
 (e) All follow
48. **Statements:** Some windows are doors.
 All doors are walls.
 No wall is roof.
 All roofs are shelters.
Conclusions: I. Some windows are walls.
 II. No wall is shelter.
 III. No door is shelter.
 (a) None follows
 (b) Only II and III follow
 (c) Only I and III follow
 (d) Only I follows
 (e) None of these
49. **Statements:** All bottles are jars.
 Some jars are pots.
 All pots are taps.
 No tap is tank.
Conclusions: I. No pot is tank
 II. Some jars are tanks
 III. Some bottles are pots.
 (a) Only I & III follow
 (b) Only I & II follow
 (c) Only II & III follow
 (d) All follow
 (e) None of these
50. **Statements:** Some fish are crocodiles.
 Some crocodiles are snakes.
 No snake is tortoise.
 All tortoises are frogs.
Conclusions: I. No snake is frog.
 II. Some snakes are fish.
 III. Some fish are frogs.
 (a) None follows
 (b) Only I & II follow
 (c) Only II & III follow
 (d) Only I & III follow
 (e) None of these



Directions (51-55) : Study the following information carefully and answer the questions given below:

P, Q, R, S, T, V, W, Y and Z are sitting around a circle facing the center. V is second to the left of P who is third to the left of Y. S is fourth to the left of P. T is third to the right of Q who is to the immediate right of V. W is fourth to the right of Z.

51. Who is third to the left of S ?
 (a) Y (b) W
 (c) T (d) Data inadequate
 (e) None of these
52. In which of the following pairs is the first person sitting to the immediate right of the second person?
 (a) VQ (b) ZV
 (c) SZ (d) RS
 (e) YT
53. In which of the following combinations is the first person sitting in between the second and the third persons?
 (a) RSZ (b) YTW
 (c) WPQ (d) VZQ
 (e) PQV
54. Who is third to the right of W?
 (a) S (b) R
 (c) V (d) Z
 (e) Data inadequate
55. Who is second to the right of Z?
 (a) Q (b) P
 (c) W (d) Data inadequate
 (e) None of these

ENGLISH LANGUAGE

Directions: 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 letter of that part is the answer. If there is no error; the answer is (e). (Ignore errors of punctuation, if any.)

56. If you employ (a)/ more systematic (b)/ methods (c)/ you can lesser (d)/ your costs. All correct (e)
57. On the basics (a)/ of this data (b)/ it is worthwhile (c)/ to take this risk. (d)/ All correct (e)
58. Our present (a)/ projects are running (b)/ on schedule (c)/ and will be completely (d)/ on time. All correct (e)
59. We have noticed (a)/ you in advance (b)/ regarding (c)/ the regional (d)/ manager's conference. All correct (e)
60. You (a) / will be ready (b) / to start (c)/while he comes (d)/.No error (e).

Directions (Q. 61–70) In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Haria, a poor barber lived alone in his small hut. He was ...(61)... to his work and whatever he earned was enough to fulfil his needs. One evening, after returning from work, Haria was hungry. Just as he was ...(62)... what he could cook for dinner he heard a hen clucking outside his hut. "That hen would make

a great feast for me," thought Haria and prepared to catch the hen. With a little effort he ...(63)... in catching the hen and as he was about to kill the hen, it squeaked, "Please do not kill me, Oh kind man ! I will help you." Haria stopped. ...(64)... he was surprised that the hen spoke, he asked, "How can you help me ?" "If you ...(65)... my life, I will lay a golden egg for you everyday," said the hen.

Haria's eyes ...(66)... in delight. Haria was surprised to hear this promise. "A golden egg ! That too everyday ! But why should I believe you ? You might be lying," said Haria. "If I do not lay a golden egg tomorrow, you can kill me," said the hen. After this promise, Haria spared the hen and ...(67)... for the next day.

The next morning, Haria found a golden egg ...(68)... outside his hut and the hen sitting beside it. "It is true ! You really can lay a golden egg !" exclaimed Haria with great delight. He did not ...(69)... this incident to any one, ...(70)... that others would catch the hen.

61. (a) dedicated (b) devote
 (c) enthusiastic (d) good
 (e) engrossed
62. (a) feeling (b) sounding
 (c) dreaming (d) plotting
 (e) wondering
63. (a) quit (b) surrendered
 (c) succeeded (d) won
 (e) managed



64. (a) Finally (b) Though
(c) Since (d) As
(e) Because
65. (a) forgive (b) leave
(c) give (d) spare
(e) consume
66. (a) exclaimed (b) dazed
(c) open (d) awakened
(e) widened
67. (a) remembered (b) starved
(c) waited (d) rejoiced
(e) looked
68. (a) lying (b) forlorn
(c) presented (d) hiding
(e) secluded
69. (a) seek (b) say
(c) narrates (d) reveal
(e) hide
70. (a) fearing (b) selfish
(c) concerning (d) citing
(e) alarmed
71. Which of the following should be the **FIRST** sentence after rearrangement?
(a) A (b) B
(c) C (d) D
(e) E
72. Which of the following should be the **SECOND** sentence after rearrangement ?
(a) A (b) B
(c) C (d) D
(e) F
73. Which of the following should be the **THIRD** sentence after rearrangement?
(a) A (b) B
(c) C (d) D
(e) E
74. Which of the following should be the **FOURTH** sentence after rearrangement?
(a) B (b) C
(c) D (d) E
(e) F
75. Which of the following should be the **LAST (SIXTH)** sentence after rearrangement?
(a) A (b) B
(c) D (d) E
(e) F

DIRECTIONS (Qs. 71-75): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

- (A) All of a sudden the mother duck saw a fox in the distance, was frightened and shouted, "Children, hurry to the lake, there's a fox !"
- (B) The mother duck ran, leading the fox away from the lake and as soon as the fox came very close, the mother duck quickly spread her wings and rose up in the air.
- (C) The ducklings hurried towards the lake and the mother duck began to walk back and forth dragging one wing on the ground.
- (D) A mother duck and her little ducklings were on their way to the lake one day.
- (E) The fox stared in disbelief at the mother duck and her ducklings as he could not reach the ducklings because they were in the middle of the lake by now.
- (F) When the fox saw her he became happy as he thought that the mother duck was hurt and couldn't fly and that he could easily catch and eat her!

Directions : Which of the phrases (a), (b), (c) and (d) given below each sentence should replace the phrase printed in bold in the sentence to make it grammatically correct ? If the sentence is correct as it is given and no correction is required, mark (e) as the answer.

76. When the bomb went off, it broke **all of our windows**.
(a) all our windows (b) all windows of us
(c) our all windows (d) all the window
(e) No improvement
77. Knowing very little English, **it was difficult to converse** with the foreigner.
(a) i found it difficult to converse
(b) to converse was difficult
(c) conversing was difficult
(d) it was not easy to conversed
(e) No improvement
78. He is quite well now, **except a slight cold**.
(a) except with a slight cold
(b) excepting a slight cold
(c) except for a slight cold
(d) except cold slightly
(e) No improvement



79. The father together with his sons and daughters **have gone** to see a film.
- (a) are gone (b) has gone
(c) is gone (d) is going
(e) No improvement
80. The stranger asked the little girl **what is her name**.
- (a) what her name is
(b) what her name was
(c) what was her name
(d) her name is what
(e) No improvement

COMPUTER KNOWLEDGE

81. What are bas, doc, and htm examples of?
- (a) extensions (b) domains
(c) protocols (d) databases
(e) None of these
82. ctrl, shift and alt are called keys.
- (a) adjustment (b) function
(c) modifier (d) alphanumeric
(e) None of these
83. Which type of file is created by word processing programs?
- (a) database file (b) storage file
(c) worksheet file (d) document file
(e) graphical file
84. Personal computers can be connected together to form a
- (a) server (b) supercomputer
(c) network (d) enterprise
(e) None of these
85. A modem
- (a) translates analog signals from a computer into digital signals that can travel along conventional telephone lines
(b) translates digital signals from a computer into analog signals that can travel along conventional telephone lines .
(c) demodulates digital signals from a computer
(d) modulates signals from an analog telephone line
(e) None of these
86. Which of the following menu types is also called a drop-down menu?
- (a) fly-out (b) cascading
(c) pop-up (d) pull-down
(e) None of these
87. Data (information) is stored in computer as
- (a) files (b) directories
(c) floppies (d) matter
(e) None of these
88. The central processing unit contains which of the following as a component?
- (a) Memory Regulation Unit
(b) Flow Control Unit
(c) Arithmetic Logic Unit
(d) Instruction Manipulation Unit
(e) None of these
89. Memory unit is one part of
- (a) Control unit (b) Central Processing Unit
(c) Input device (d) Output device
(e) None of these
90. The process of writing out computer instructions is known as
- (a) assembling (b) compiling
(c) executing (d) coding
(e) None of these



ANSWERS

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

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