8011

GOVERNMENT OF PUDUCHERRY
DIRECTORATE OF SCHOOL EDUCATION

QUESTION BOOKLET

NOVEMBER 2019

PART – I
MENTAL ABILITY TEST

Centre Code No. | | | | **Register No.** | | | | |

INSTRUCTIONS

1. Answer all the questions. All questions carry one mark each
2. Since all questions are compulsory, do not try to read through the whole question paper before beginning to answer.
3. Begin with the first question and keep on trying one question after another till you finish all the question.
4. If you do not know the answer to any question, do not spend much time on it but pass on to the next one. Time permitting, you can come back to the questions which you have left in the first instance and try them again.
5. Since the time allotted to this question paper is very limited, you should make the best use of it by not spending too much time on any one question.
6. Separate sheets have been provided for rough work in the Question Booklet itself.
7. The answers should be marked on a separate answer sheet provided in the Examination Hall.
8. The answer sheet has two parts corresponding to Part – I and Part –II of the Test.
9. Answer to each question is to be indicated by shading the number of the correct choice in the answer sheet with black ballpoint pen from amongst the ones given for the corresponding question in the test booklet.

PART I
MENTAL ABILITY TEST – NOVEMBER 2019

8011

Duration: 90 minutes **Max Marks: 90**

Question nos. 1-5

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

1. Ganges, Krishna, Cauvery, Vaigai
   1) Ganges 2) Cauvery 3) Krishna 4) Vaigai

2. Einstein, Newton, Abraham Lincoln, Boyle
   1) Boyle 2) Abraham Lincoln 3) Newton 4) Einstein

3. Deer, Goat, sheep, Shepherd
   1) Goat 2) Shepherd 3) Deer 4) sheep

4. Gallon, Tonne, Quintal, Kilogram
   1) Gallon 2) Tonne 3) Quintal 4) Kilogram

5. Larva, Pupa, Caterpillar, Nymph
   1) larva 2) Pupa 3) Caterpillar 4) Nymph

Question nos. 6-10

Direction: Some letters are given in Row A and some digits are given in Row B. The letter in Row A represents any one of the five numbers. Study the Row A and identify the number allotted to each letter

ROW- A					ROW- B				
C	H	I	A	E	4	1	7	9	6
J	A	E	R	H	5	1	4	9	2
Y	C	G	U	A	8	0	4	7	3
U	J	R	Y	G	8	3	0	5	2
R	G	I	H	E	9	5	8	6	1
I	A	U	G	C	7	8	0	4	6
H	Y	J	C	E	3	1	9	7	2
R	J	C	Y	A	2	4	3	7	5
E	C	R	G	U	5	0	8	9	9
G	J	I	H	U	6	1	0	2	8

6. The code for H is
   1) 4 2) 1 3)9 4)6

7. The code for Y is
   1) 5 2) 0 3)3 4)7

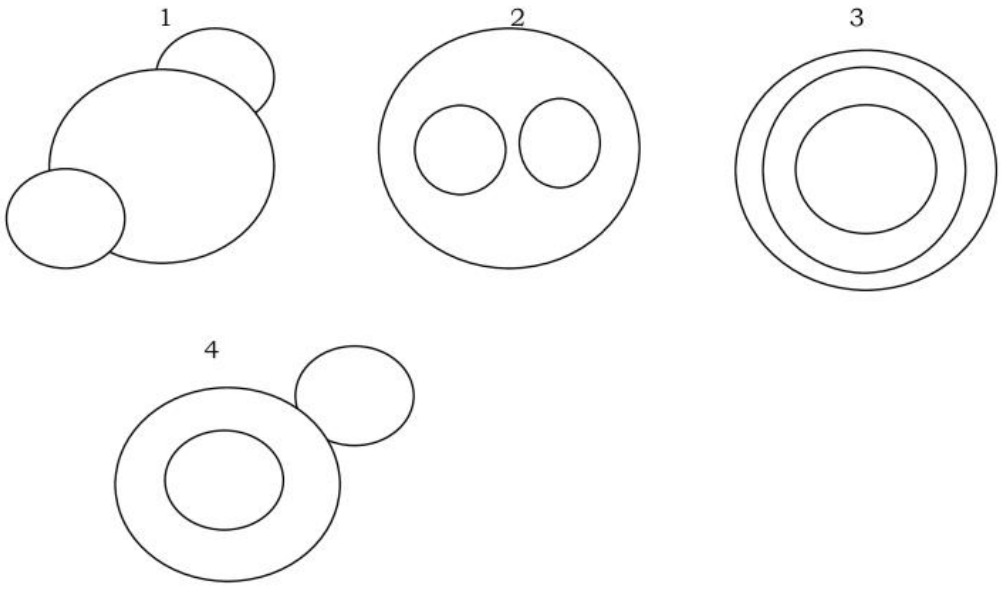
8. The code for E is
   1) 1 2) 8 3) 6 4) 9

9. The code for J is
   1) 2 2) 9 3) 4 4) 7

10. The code for G is
    1) 7 2) 6 3) 8 4) 2

Question nos. 11-15

Direction: The following diagrams show some relationship among three items. For each group of elements there corresponds one diagram 1, 2, 3, 4. Select one diagram



11. Table, cot, furniture
    1) 1 2) 2 3) 3 4) 4

12. Father, Mother, Family
    1) 1 2) 2 3) 3 4) 4

13. Sea, Ocean, river
    1) 1 2) 2 3) 3 4) 4

14. Chennai, Tamilnadu, India
1) 1 2) 2 3) 3 4) 4

15. Ganges, Beas, Sutlej
1) 1 2) 2 3) 3 4) 4

Question nos. 16-17
Directions: In each of the following questions, the real alphabets in a word are replaced by certain numbers according to a specific rule to form its code. Choose the most appropriate from the given alternatives.

16. In a certain code **GUIDE** is written as **49132** and **BEAM** is written as **8257**. How is **IMAGE** written in that code?
1)17542 2) 15742 3) 27541 4) 18542

17. If in a certain code **ENTRY** is coded as **12345** and **STEADY** is coded as **931785**, then the correct code for **NEATNESS** is?
1) 25196577 2) 21732199 3) 21362199 4) 21823698

Question nos. 18-20
Directions: In each of the following questions, the real alphabets in a word are replaced by certain other alphabets according to a specific rule to form its code. Choose the most appropriate from the given alternatives.

18. In a certain code language, 'HOW CAN YOU GO' is written as 'JA DA KA PA', CAN YOU COME HERE' is written as 'NA KA SA JA' and 'COME AND GO' is written as 'RA PA SA'. How is 'HERE' written in that code?
1) NA 2) JA 3) SA 4) DA

19. In a language RAT is coded as @$& and HEAD is coded as %*$#, then how is THREAD coded?
1) #$*@%& 2) @#%$*& 3) &%@*$# 4) &*$%#@

20. If wall is called window, window is called door, door is called floor, floor is called roof and roof is called ventilator. What will a person stand on?
1) Window 2) Wall 3) floor 4) Roof

(Question nos. 21-35)
Directions: In each of the following questions, there is a certain relation between two given words on one side. Fill in the blanks with best alternative for the second pair

21. Vaunt : flaunt :: Disparate : _____
1) Similar 2) Homogeneous 3) Control 4) Alike

22. Biped : Quadruped :: Ostrich : _____
1) Cat 2) Rabbit 3) Tortoise 4) Rat

23. Lethargic : Vital :: Trite : _____
1) Unique 2)Slug 3)Lazy 4)Skinny

24. Rotate : Energy :: Stop : _____
1) Spin 2) Break 3) Inertia 4) Roll

25. Transition : change :: Immobility : _____
1) Stillness 2) Liveliness 3) Action 4) Busyness

26. Fossil : Extinction :: Puddle : _____
1) Wet 2) Rain 3) Lake 4) Dry

27. Wood : Polish :: Iron : _____
1) Steel 2) Galvanisation 3) Rust 4) Magnetisation

28. Rupee : India :: Yen : _____
1) Somalia 2) England 3) Japan 4) Bangladesh

29. 2 : 55 :: 6 : _____
1) 99 2) 44 3) 9 4) 33

30. Nail is related to Nail cutter in the same way Hair is related to
1) Oil 2) Hair Cut 3) Scissors 4) Comb

31. Library is related to books as books is related to
1) Bag 2) Pages 3) Binding 4) Cover

32. Yard is related to fence as animal cell is related to
1) Mitochondria 2) Cytoplasm 3) Membrane 4) Nucleus

33. 8 is related to 81 in the same way 64 is related to
1) 225 2) 425 3) 525 4) 625

34. Rubber is related to Tree in the same way Silk is related to
1) Cloth 2) Insect 3) Fabric 4) Saree

35. BE is related to FI; CO is related to PS in the same way RU is related to
1) VY 2) WZ 3) VZ 4) VX

36. Find the missing number 48: 8:: 96: ?
1) 14 2)16 3) 15 4) 17

37. How many such pairs of digits are there in the number 421579368 each of which has as many digits when they are arranged in ascending order?
1) 4 2) 2 3) 1 4) 3

38. Choose the correct

18	**15**	**12**	**25**
13	**?**	**19**	**14**
23	**10**	**17**	**20**
16	**21**	**22**	**11**

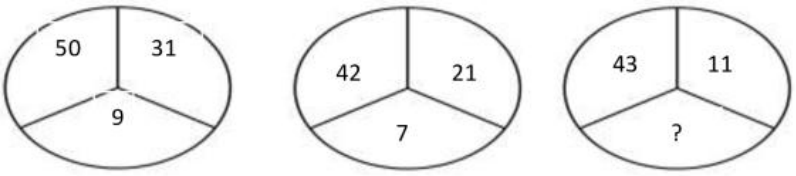
1) 20 2) 24 3) 23 4) 25

39. This is a series of digits that has been written by randomly arranging 19 digits how many consecutive pairs of numbers does it contain?

3 8 6 2 3 8 1 9 6 9 5 7 8 5 9 1 7 7 3

1) 3 2) 2 3) 4 4) 5

40. Find the missing number



1) 5 2) 3 3) 6 4) 9

41. Find the missing number

4, 18, ? , 100, 180, 294, 448

1) 84 2) 65 3) 48 4) 81

42. Which one pair is different from the rest?

1) 32, 13 2) 46, 20 3) 51, 24 4) 72, 45

43. How many meaningful English words can be formed with the letters ESRO using each letter only once in each word?

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

44. S L U A Y J V E I O N Q G Z B D R H

What will come in place of question (?) mark in the following series:

LA UJ YI EG?

1) ZH 2) IB 3) NR 4) QH

45. Alpha is to omega as first is to what?

1) Alpha 2) Beta 3) Gamma 4) last

46. How many A's are there in the following sequence which are immediately followed by B as well as immediately preceded by Z?
A M B Z A N A A B Z A B A Z B A P Z A B A Z A B

1) 3 2) 4 3) 5 4) 6

47. Arrange the following in order of dictionary
a) Scenary b) Science c) Scandal d) School e) Scatter

1) c,e,a,d,b 2) c,e,d,a,b 3) e,c,d,b,a 4) e,c,b,a,d

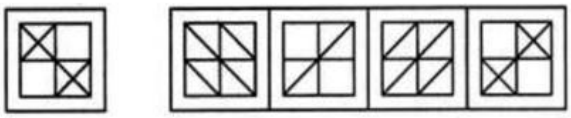
48. TUB, DIH, SON, CAR, HAT if the position of the first and third Alphabets are interchanged, which form a meaningful word?

1) BUT 2) SON 3) both CAP and BUT 4) both CAR and LAP

49. N O P Q Y B Z A R S H I J K L M T U V G F E W X D C
NDP, QWB, ZFR, ?
1) SVI 2) AFS 3) IVS 4) SFA

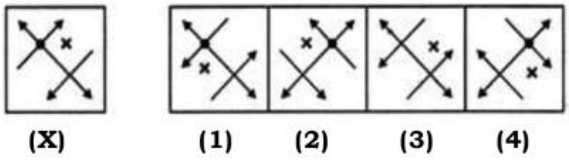
50. DEF, DEF_2, DE_2F_2, _____, $D_2E_2F_3$
1) DEF_3 2) D_3EF_3 3) D_2E_3F 4) $D_2E_2F_2$

51. Choose the correct mirror image of the given figure (X) from amongst the four alternatives.



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

52. Choose the correct mirror image of the given figure (X) from amongst the four alternatives.



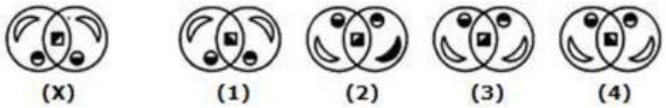
1)1 2) 2 3) 3 4) 4

53. Choose the alternative which is closely resembles the water-image of the given combination.

A1M3b
(1) ∀ιW3P (2) ∀ιW3P
(3) ∀ſW3P (4) ∀ſWƐP

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

54. Choose the correct water image of the given figure (X) from amongst the four alternatives.



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

55. Choose the alternative which is closely resembles the mirror image of the given combination.

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(1) JANOITAN (2) JANOITAN

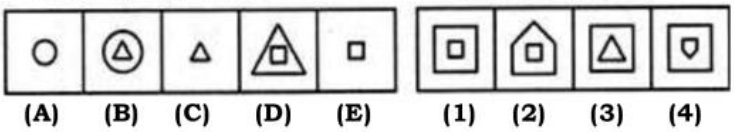
(3) JANOITAN (4) LANOITAN

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

Directions: Select a figure from amongst the Figures which will continue the same series as established by the five Problem Figures.

56.

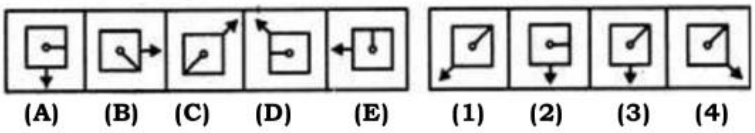
Problem Figures: **Answer Figures:**



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

57.

Problem Figures: **Answer Figures:**

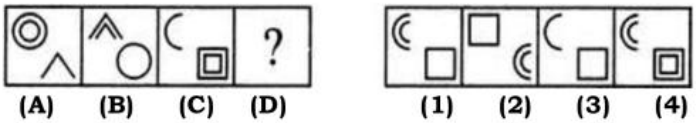


1)1 2) 2 3) 3 4) 4

Direction: Select a suitable figure from the Figures that would replace the question Mark (?).

58.

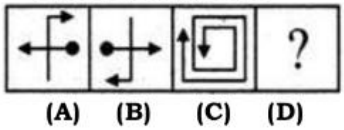
Problem Figures: **Answer Figures:**



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

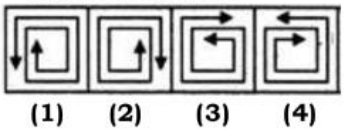
59.

Problem Figures:



(A) (B) (C) (D)

Answer Figures:

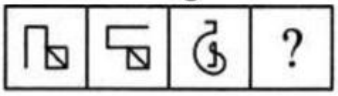


(1) (2) (3) (4)

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

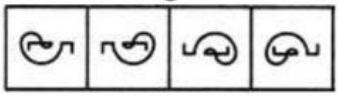
60.

Problem Figures:



(A) (B) (C) (D)

Answer Figures:



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

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

Direction: Choose the figure which is different from the rest.

61.



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

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

62.



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

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

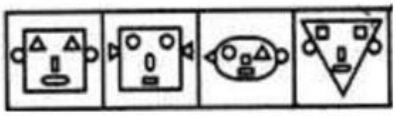
63.



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

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

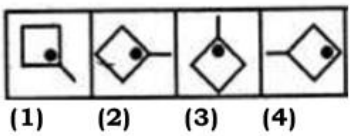
64.



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

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

65.

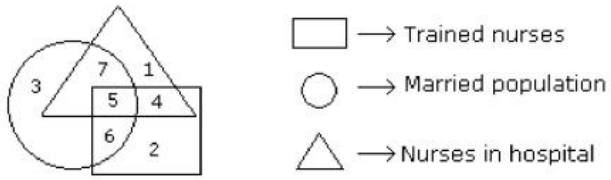


(1) (2) (3) (4)

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

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Direction: Study the following figure and answer the questions given below.



66. If hospital management requires only married trained nurses for Operation Theater, which part of diagram should be chosen by him?
    1) 7 2) 4 3) 5 4) 6

67. By which number, the trained unmarried nurses in the hospital are represented?
    1) 6 2) 5 3) 7 4) 4

68. By which numbers trained nurses are represented?
    1) 3, 6 2) 7, 5 3) 5, 6 4) 1, 5

69. By which number, married but untrained nurses in the hospital are represented?
    1) 4 2) 6 3) 7 4) 5

70. What is represented by the number 7?
    1) Married nurses in the hospital 2) Trained nurses
    3) Unmarried trained nurses 4) Married trained nurses

Direction: Six friends P, Q, R, S, T and U are sitting around the hexagonal table each at one corner and are facing the centre of the hexagonal.
P is second to the left of U. Q is neighbour of R and S. T is second to the left of S.

71. Who is the fourth person to the left of Q?
    1) P 2) U 3) R 4) S

72. Which one is sitting opposite to T?
    1) R 2) Q 3) S 4) U

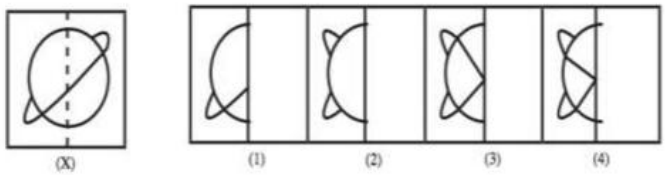
73. Which one is sitting opposite to P?
    1) R 2) Q 3) T 4) S

74. Which of the following are the neighbours of P?
    1) U and P 2) T and R 3) U and R 4) P and R

75. Who is the third person to the left of U?
    1) P 2) Q 3) R 4) S

76. Find out from the four alternatives as how the pattern would appear when the transparent sheet is folded at the dotted line.

Question figure **Answer figure**



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

77. How many times are the hands of a clock at right angle in a day?
1) 22 2) 24 3) 44 4) 48

78. Today is Monday. After 61 days, it will be :
1) Tuesday 2) Monday 3) Sunday 4) Saturday

79. When 0.36 is written in simplest form, the sum of the numerator and the denominator is:
1) 15 2) 34 3) 64 4) 13

80. Ravi left home and cycled 10 km towards South, then turned right and cycled 5 km and then again turned right and cycled 10 km. After this he turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?
1) 10 km 2) 15 km 3) 20 km 4) 25 km

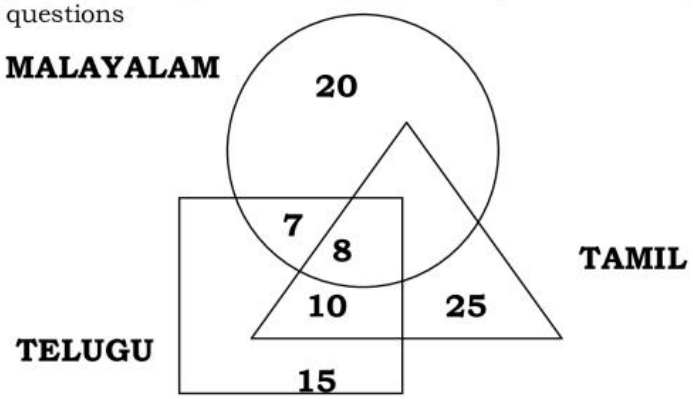
81. What percentage of numbers from 1 to 70 has 1 or 9 in the unit's digit?
1) 1 2) 14 3) 20 4) 21

82. A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B can together finish the work in :
1) 4 days 2) 6 days 3) 8 days 4) 18 days

83. A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has?
1) 45 2) 60 3) 75 4) 90

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Direction:
In a flat, people speaking Tamil, Telugu and Malayalam are living together. Now the following questions



84. How many people speak Tamil only?
1) 25 2) 15 3) 20 4) 8

85. How many people speak both Tamil and Telugu but not Malayalam
1) 20 2) 10 3) 7 4) 8

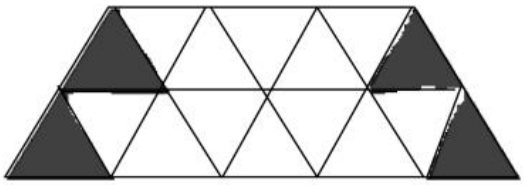
86. How many people speak Malayalam only?
1) 15 2) 7 3) 20 4) 8

87. How many people speak all the three languages?
1) 8 2) 10 3) 20 4) 15

88. How many people speak Telugu only?
1) 15 2) 10 3) 20 4) 8

89. How many number of match sticks required to form cube?
1) 4 2) 6 3) 8 4) 12

90.



Find the number of triangles formed in the above figure excluding the shaded portion?

1) 12 2) 14 3) 16 4) 10