



8011

**GOVERNMENT OF PUDUCHERRY
DIRECTORATE OF SCHOOL EDUCATION**

QUESTION BOOKLET

MARCH 2021-22

**PART – I
MENTAL ABILITY TEST**

Centre Code No.

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Register No.

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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 – MARCH 2021-22

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Duration: 90 minutes

Max Marks: 90

Questions (1 to 5)

In each series, look at this series what number should come next? In other words, do the numbers increase or decrease and by how much?

1. 5, 11, 17, ?, 31, 41

1) 12

2) 13

3) 14

4) 15

2. 1, 1, 8, ?, 27, 9, 64

1) 4

2) 6

3) 9

4) 16

3. -1, 0, ?, 8, 15, 24

1) 1

2) 2

3) 3

4) 4

4. 125, 80, 45, 20, ?

1) 5

2) 8

3) 10

4) 12

5. 589654237, 89654237, 8965423, 965423, ?

1) 58965

2) 65423

3) 89654

4) 96542

Questions (6 to 10)

Directions: The given questions are based on letter series. In each question some letters are missing. The missing letters are given in the proper sequence in the choices given under each Question. Find the correct sequential alternative in respect of each questions.

6. - - aba - -ba - ab

1) abbba

2) abbab

3) baabb

4) bbaba

7. - tu -rt - s - - usrtu

1) rtusru

2) rsutrr

3) rsurtr

4) rsurts

8. cccbb - - aa - cc -bbbaa - c

1) acbc

2) baca

3) baba

4) acba

9. - b - de - ghi -

1) acfj

2) jfca

3) afcj

4) cjfa

10. - - k - t - txk - t - txkk

1) kxtkxt

2) txkxkx

3) xxtkxk

4) kttkxk

Questions (11 to 20)

Directions: In the questions given there is a question mark (?) in a blank space. Under each question one of the four alternatives given satisfies the relationship between the two terms to the left or to the right of the sign :: given in the question. Find the correct answer for each question.

11. CAT : DDY :: BIG : ?

- 1) CLL 2) CLM 3) CML 4) CEP

12. PALE: LEAP :: POSH : ?

- 1) HSOP 2) POHS 3) SHOP 4) OPSH

13. MUMBAI : LTLAZH :: DELHI : ?

- 1) CDKGG 2) IHLED 3) CDKGGH 4) BCKGH

14. ? : TVXZ :: FHJL : NPRT

- 1) LNRP 2) LMOQ 3) LNPR 4) NMPR

15. AEFJ : KOPT :: ? : QUVZ

- 1) GLKP 2) GKLP 3) HKLP 4) HKOL

(Questions 16 to 20)

Directions: In the questions given a word is written according to some code. In each question a word is given and how this can be written in the same code is indicated by four choices. Select the correct answer.

16. If MILD can be written as HEIB, then GATE should be written as:

- 1) BQWC 2) BWQC 3) BQCW 4) BCWQ

17. If COLD can be written as ALHY then IRON should be written as:

- 1) GUKI 2) GUSI 3) GOKI 4) GKOI

18. If TRADE can be written as UQBCF, then PLATE can be written as:

- 1) QKBSF 2) QKBUF 3) QMZUD 4) QMBUF

19. If MATHS is coded as 13 1 20 8 19, Then ENGLISH can be coded as.

- 1) 8 19 9 12 7 14 5 2) 7 14 12 9 19 5 8
3) 5 14 7 12 9 19 8 4) 19 9 12 14 5 7 8

20. If KORT can be written as PJWO then FINE should be written as:

- 1) KCSM 2) KDSM 3) JSMR 4) JCRN

Questions (21 to 25)

In each of the following questions, choose that set of numbers from the four alternative sets that is similar to the given set.

21. Given set (2,14,16)
 1) (2,7,8) 2) (2,9,16) 3) (3,21,24) 4) (4,16,18)
22. Given set (8,3,2)
 1) (10,6,5) 2) (63,8,3) 3) (95,24,5) 4) (168,15,4)
23. Given set (81,77,69)
 1) (56,52,44) 2) (64,61,53) 3) (75,71,60) 4) (92,8,79)
24. Given set (1,8,27)
 1) (5,12,32) 2) (32,39,59) 3) (60,79,86) 4) (64,125,216)
25. Given set (14, 23, 32)
 1) (15,23,31) 2) (14,19,24) 3) (13,21,29) 4) (12,21,30)

(Questions: 26 to 30)

Directions: The Question given is based on the diagrams given below. Each circle represents one item irrespective of the size. Match the figure with items in the questions on the basis of their relationship. Identify the correct answer.

26. Police, Teacher, School
 1) A 2) B 3) C 4) D
27. Dog, Fish, Bird
 1) A 2) B 3) C 4) D
28. Library, Almirah, Book
 1) A 2) B 3) C 4) D
29. Family, Brother, Sister
 1) A 2) B 3) C 4) D
30. Square, Rectangle, Polygon
 1) A 2) B 3) C 4) D

Questions (31-35)

Directions: The following questions consists of two words each that have a certain relationship to each other, followed by four lettered pairs of word. Select the lettered pair that has the same relationship as the original pair of words

31. Darkness: Lamp
 1) Fatigue: Exercise 2) Thirst: Water 3) Medicine: Illness 4) Study: Classroom
32. Chimney: Smoke
 1) Tea: Kettle 2) Clay: Ceramic 3) House: Roof 4) Gun: Bullet

33. Sphere: Ball

1) Circle: Disc

2) Cube: Dice

3) Line: Rope

4) Triangle: Coin

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34. Chalk: Blackboard

1) Type: Paint

2) Table: Chair

3) Ink: paper

4) Door: Handle

35. Paper: Ream

1) Eggs: Dozen

2) Books: Pile

3) Twigs: Bush

4) Food: Packet

Questions (Q.36 to 40)

Directions: In the following question are represented by BLOOD Relation.

36. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?

1) Grandfather

2) Grandmother

3) Daughter

4) Grand daughter

37. A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is girls ----

1) Brother

2) Son

3) Uncle

4) Son- in- law

38. There are six persons A, B, C, D, E and F. C is the sister of F. B is the brother of E's husband. D is the sister of F. B is the brother of E's husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group. Who is the mother?

1) A

2) B

3) C

4) E

39. Brothers and sisters I have none. Looking at a portrait of a man, harsh said, "His mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was harsh looking?

1) His son

2) His cousin

3) His uncle

4) His nephew

40. Rita told Mani, "The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Rita's friend?

1) Cousin

2) Daughter

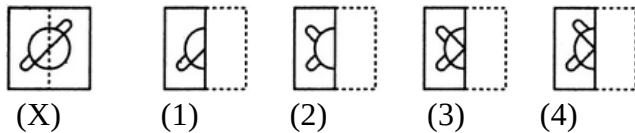
3) Niece

4) Friend

Questions (36 - 40)

Directions: In each of the following problems, a square transparent sheet (X) with a pattern is given. Figure out from amongst the four alternatives as to how the patten would appear when the transparent sheet is folded at the dotted line.

36.



1) 1

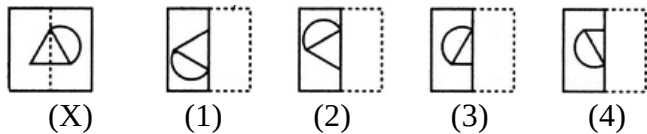
2) 2

3) 3

4) 4

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37.



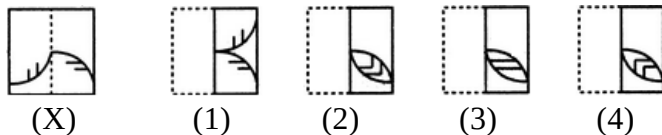
1) 1

2) 2

3) 3

4) 4

38.



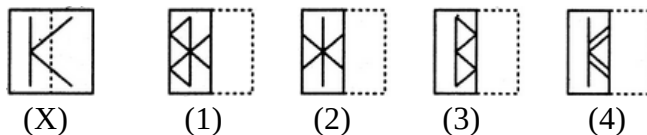
1) 1

2) 2

3) 3

4) 4

39.



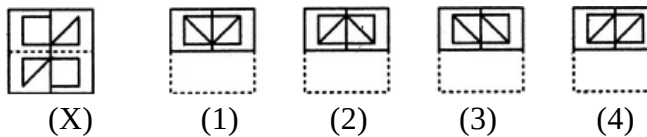
1) 1

2) 2

3) 3

4) 4

40.



1) 1

2) 2

3) 3

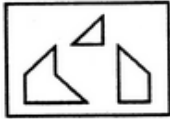
4) 4

Questions (41 - 45)

Directions to Solve: In each of the following questions you are given a combination of alphabets and/or numbers followed by four alternatives (1), (2), (3) and (4). Choose the alternative which is closely resembles the mirror image of the given combination.

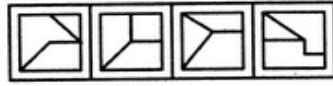
In the following questions find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).

41.



(X)

1) 1



(1)

(2)

(3)

(4)

2) 2

3) 3

4) 4

42.



(X)

1) 1



(1)

(2)

(3)

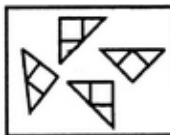
(4)

2) 2

3) 3

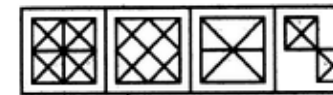
4) 4

43.



(X)

1) 1



(1)

(2)

(3)

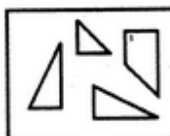
(4)

2) 2

3) 3

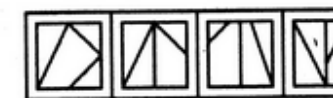
4) 4

44.



(X)

1) 1



(1)

(2)

(3)

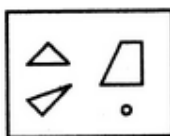
(4)

2) 2

3) 3

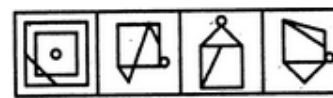
4) 4

45.



(X)

1) 1



(1)

(2)

(3)

(4)

2) 2

3) 3

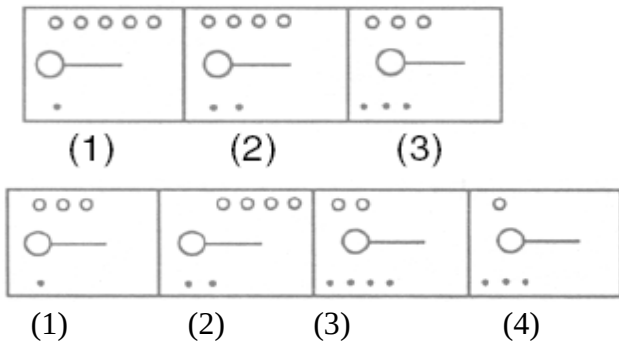
4) 4

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Questions (46 - 48)

Direction: In the following questions the item in the diagrams either increase or decrease in number. Choose the alternative which completes the series from the given alternatives.

46.



1) 1

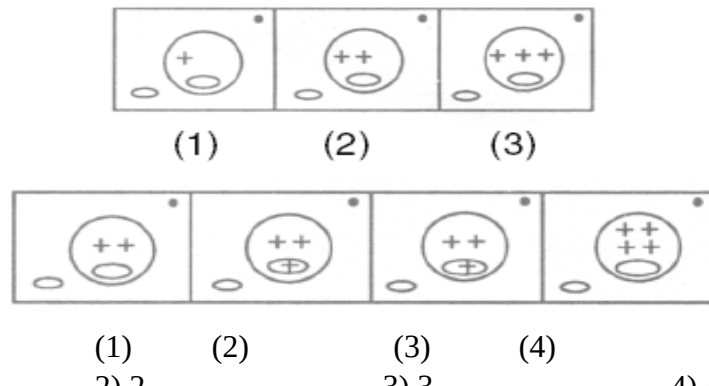
2) 2

3) 3

4) 4

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47.



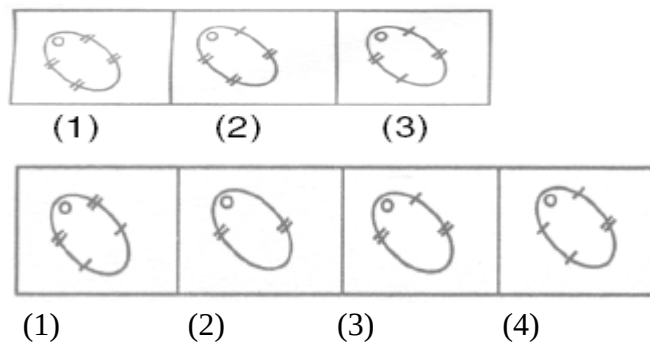
1) 1

2) 2

3) 3

4) 4

48.



(1)

(2)

(3)

(4)

1) 1

2) 2

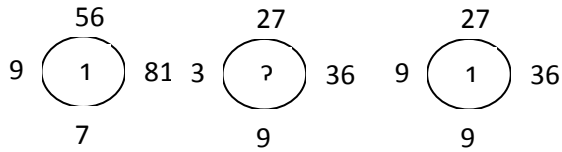
3) 3

4) 4

Questions (49 –52):

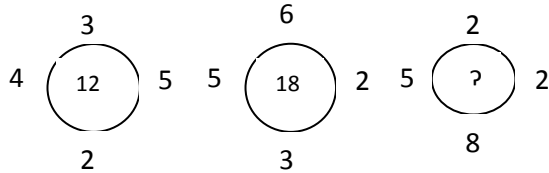
Directions: In each question there are circles. Certain numbers are given inside/outside the circles according to a particular rule. In each question one of the circle has a (?) mark in side it. Choose the correct answer to fill in the space marked (?) from the given alternatives.

49.



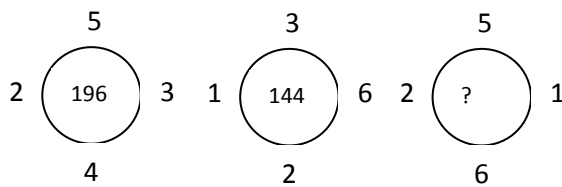
- 1) 9 2) 10 3) 11 4) 12

50.



- 1) 12 2) 14 3) 16 4) 20

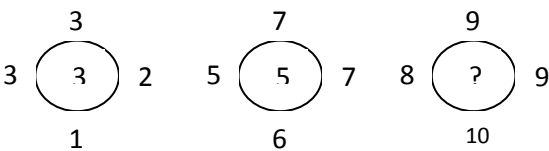
51.



- 1) 270 2) 196 3) 256 4) 320

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52.



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

Questions (53 – 55)

Direction: Find out the correct alternative of the question based on the Dice figures.

53.



The number opposite side the face having the no. 5 will be

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

54.



The number opposite the face having the no. 2 will be

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

55.



The number opposite the face having the no. 2 will be

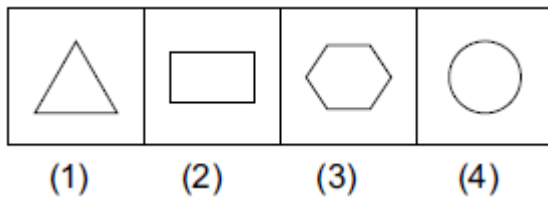
- 1) 1 2) 4 3) 3 4) 5

Questions (56-60):

Direction: In these problems, there is a group of four figures marked serially 1 to 4. Out of these four figures three are similar in some way and one is different. Find the one which is different.

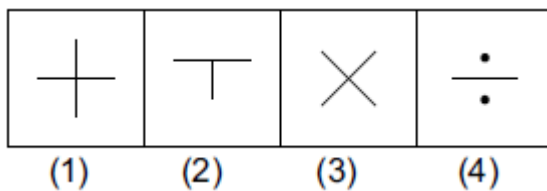
56.

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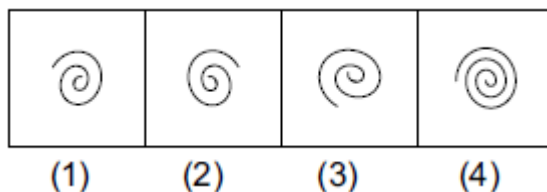
- 1) 1 2) 2 3) 3 4) 4

57.



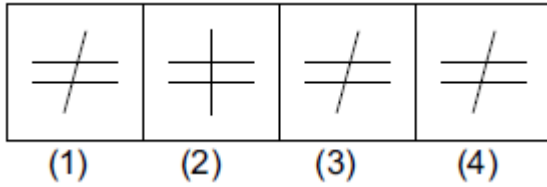
- 1) 1 2) 2 3) 3 4) 4

58.



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

59.



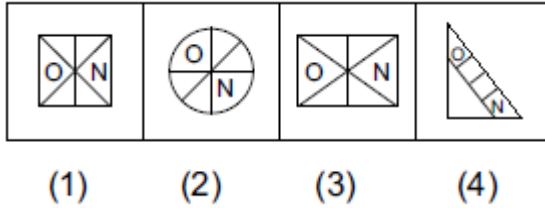
1) 1

2) 2

3) 3

4) 4

60.



1) 1

2) 2

3) 3

4) 4

(Questions 61 to 70)

Directions: The given questions are based on letter series. In each question some letters are missing. The missing letters are given in the proper sequence in the choices given under each Question. Find the correct sequential alternative in respect of each questions.

61) a - b d d - c a a c b - d b c -

1) b d c a

2) c b d a

3) b c a b

4) c a b d

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62) a - b b - c c c - a - b

1) b a a d

2) a a b d

3) a b d a

4) c b d a

63) x y - - x y y - x y - x

1) x y y y

2) x y x x

3) y x x y

4) x y y x

64) - - r s m - o - p q - s

1) p q n p r

2) q p m n r

3) p q n m s

4) q p n s m

65) N S M - O Q P - Q O R - S N

1) R Q M

2) R P M

3) P Q O

4) P R O

66) p - r q - s r - p - - q

1) s p s r q

2) s p q s r

3) q r p s r

4) q r p q r

67) a b - b a b c - a b - b - b c b - b

1) a b c c a

2) c c b a b

3) c b c a a

4) c b b a c

68) e e - g - e - f g g - e f - g

1) f g e g e

2) f g e e g

3) g e e g f

4) g e e f g

69) a b - c b c c - - a a b - b b c

1) b a c a

2) a a b a

3) c a c b

4) b b c b

70) **Z L X J V H T F - -**

1) R, E

2) S, E

3) R, D

4) S, D

(Questions: 71 to 75)

Directions: In the questions given there is a question mark (?) in a blank space. Under each question one of the four alternatives given satisfies the relationship between the two terms to the left or to the right of the sign :: given in the question. Find the correct answer for each question.

71) **B E J : D I P :: K N R : ?**

1) M Q W

2) N Q V

3) M R X

4) L P U

72) **D G M : Q T Z :: B I L : ?**

1) Y R O

2) O Y V

3) O V Y

4) O R Y

73) **2 C D : 5 F G :: ? : 11 L M**

1) 7 I J

2) 8 J K

3) 7 H I

4) 8 I J

74) **Y B V E : ? :: U F R I : S H P K**

1) C X H R

2) X C R H

3) D W G T

4) W D T G

75) **B H N T : A G M S :: E K Q W : ?**

1) E J P V

2) D P V J

3) D J P V

4) F J P V

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(Questions 76 to 80)

Directions: In the questions given a word is written according to some code. In each question a word is given and how this can be written in the same code is indicated by four choices. Select the correct answer.

76) If **LION** can be written as **Q M R P**, then **DEER** should be written as :

1) I I H T

2) H I I T

3) T H H I

4) I T T H

77) If **SCIENCE** can be written as **T A J C O A F** then **PHYSICS** should be written as :

1) U F Z Q T A J

2) O F Z Q A T

3) Q F Z Q J A T

4) O F Z Q A J

78) If **SCIENCE** can be written as **19 3 9 5 14 3 5**, then **HISTORY** can be written as:

1) 7 8 15 16 12 19 24

2) 8 9 19 20 15 18 25

3) 6 7 17 18 14 20 23

4) 5 6 14 15 19 21 26

79) If **DELHI** is coded as **CCIDD**, Then **BOMBAY** can be coded as.

1) A J M T V T

2) A M J X V S

3) M J X V S U

4) W X Y Z A X

80) If **PLAYER** can be written as **ROEDKY** then **HOCKEY** should be written as :

1) K P R G F D

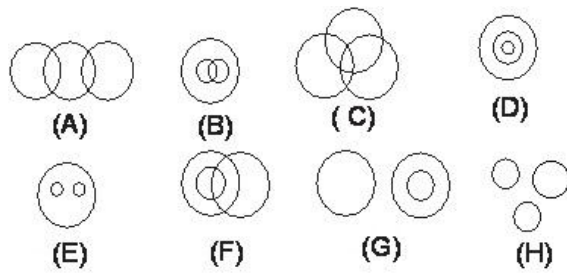
2) J R G P K F

3) I P J K F G

4) K J F G P F

(Questions: 81 to 90)

Directions: The Question given are based on the diagrams given below. Each circle represents one item irrespective of the size. Match the figure with items in the questions on the basis of their relationship. Identify the correct answer.



81) **Arthropods, Insects, Bedbug**

1) A 2) C 3) D 4) E

82) **Vegetables, Beans, Apple**

1) E 2) F 3) G 4) H

83) **Teachers, Fathers, Mothers**

1) C 2) D 3) E 4) F

84) **Players, Cricket, Tennis**

1) A 2) B 3) C 4) E

85) **Actors, Dancers, Singers**

1) A 2) B 3) C 4) E

86) **Yellow, Roses, Dresses**

1) A 2) B 3) E 4) F

87) **Planets, Earth, Stars**

1) B 2) C 3) E 4) G

88) **Crocodile, Lion, Eagle**

1) E 2) F 3) G 4) H

89) **Doctors, Surgeons, women**

1) A 2) C 3) E 4) F

90) **Women, Mothers, Musicians**

1) E 2) F 3) G 4) H

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Rough Work only

**8021**

**GOVERNMENT OF PUDUCHERRY
DIRECTORATE OF SCHOOL EDUCATION**

QUESTION BOOKLET

MARCH 2021-22

**PART – II
SCHOLASTIC APTITUDE TEST**

Centre Code No.

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Register No.

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INSTRUCTIONS

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SCIENCE

1. The instrument used to find the quantity of current flowing through the circuit is -----.
1) Voltmeter 2) Ammeter 3) Galvanometer 4) Speedometer
2. ----- is the unit for measuring the speed of aeroplanes and ships.
1) Mile 2) Kilometer 3) Knot 4) m/s
3. An athlete takes 20sec to complete a 100m sprint event. Find her speed
1) 5 m/s 2) 8 m/s 3) 4 m/s 4) 10 m/s
4. Optical fibre is a device that works on the principle of -----
1) Refraction 2) Dispersion 3) Total internal reflection 4) Scattering of light
5. The danger lights in vehicles are red in colour because
1) It has highest wavelength 2) It is able to travel longest distance in air
3) It is scattered the least by air molecules 4) All of the above.
6. ISRO, the space agency of Government of India has its headquarters in-----
1) New Delhi 2) Kanpur 3) Bangaluru 4) Mumbai
7. What kind of musical instrument is flute?
1) Reed instrument 2) Stringed instrument 3) Percussion instrument 4) Wind instrument
8. Which of the following a simple circuit must have?
1) Energy source, battery, load 2) Energy source, wire, load
3) Energy source, wire, switch 4) Battery, wire, switch
9. If the focal length of a spherical mirror is 8cm, what is its radius of curvature?
1) 10cm 2) 4cm 3) 12cm 4) 16cm
10. Which of the following equals the Avogadro number?
1) 6.023×10^{-23} 2) 6.023×10^{23} 3) 6.023×10^{20} 4) 6.023×10^{-20}
11. The----- rays from the sun break ozone molecules
1) Ultraviolet 2) Infra red 3) Gamma 4) Alpha
12. Phenolic compounds present in fruits become a brown pigment known as-----
1) Alanine 2) Phenylalanine 3) Melanine 4) Albumin

13. Valency of anion in H_3PO_4 is -----
 1) 3 2) 4 3) 1 4) 7
14. Milk of magnesia is -----
 1) $\text{Mg}(\text{OH})_2$ 2) MgSO_4 3) MgCO_3 4) MgCl_2
15. ----- is a food preservative.
 1) Sulphuric acid 2) Benzoic acid 3) Lactic acid 4) Nitric acid
16. -----, carbon-di-oxide become dry ice.
 1) -15°C 2) -17°C 3) -57°C 4) -75°C
17. The process in which a solid is converted directly into gas is called -----
 1) Sublimation 2) Condensation 3) Evaporation 4) Melting
18. ----- is the formula of methane
 1) C_2H_6 2) CH_4 3) CO_2 4) MgCO_3
19. The hardest natural substance on the earth is -----
 1) Gold 2) Iron 3) Diamond 4) Aluminium
20. ----- is a biodegradable and bioactive thermoplastic
 1) Polythene 2) PVC 3) Thermocol 4) Poly Lactic acid
21. Which is called the amphibians of the plant kingdom?
 1) Pteridophytes 2) Bryophytes 3) Gymnosperms 4) Angiosperms
22. Vanda is a ----- plant
 1) Epiphytic plant 2) Parasitic plant 3) Insectivorous plant 4) Xerophytic plant
23. A group of flowers arranged together is called -----
 1) Unisexual flower 2) Complete flower 3) Incomplete flower 4) Inflorescence
24. Avicennia tree has -----type of roots
 1) Prop roots 2) Storage roots 3) Breathing roots 4) Stilt roots
25. The female reproductive organ of a flower
 1) Gynoecium 2) Sepal 3) Petal 4) Androecium

26. Match the following

(i) Fungus - (a) Naked seed plant

(ii) Bryophytes - (b) Rhizoid

(iii) Pteridophyte - (c) Haptophyta

(iv) Gymnosperm - (d) Prothallus

1) (i)-(d) (ii)-(a) (iii)-(c) (iv)-(b)

2) (i)-(c) (ii)-(b) (iii)-(d) (iv)-(a)

3) (i)-(a) (ii)-(b) (iii)-(c) (iv)-(d)

4) (i)-(b) (ii)-(c) (iii)-(d) (iv)-(a)

27. Water conducting tissue is tracheid and the food conducting tissue is sieve cell seen in -----

1) Gymnosperms

2) Angiosperms

3) Bryophytes

4) Pteridophytes

28. The act of chewing and tasting the food is called -----

1) Digestion

2) Absorption

3) Mastication

4) Secretion

29. The cell organelle which is called the power house of the cell is -----

1) Chloroplast

2) Lysosome

3) Mitochondria

4) Golgi apparatus

30. The disease cholera is caused by -----bacterium.

1) Rhizobium

2) Salmonella typhi

3) Mycobacterium tuberculae

4) Vibrio cholera

31. The cultivation and production of silk is known as -----

1) Horticulture

2) Agriculture

3) Sericulture

4) Floriculture

32. The ----- is the control centre of the cell. It is the largest organelle.

1) Golgi body

2) Nucleus

3) Cytoplasm

4) Endoplasmic Reticulum

33. Approximate number of cells in the human body is -----

1) 3.7×10^{13}

2) 3.7×10^{11}

3) 3.7×10^{14}

4) 3.7×10^8

34. Earth's surface is covered by -----% of water.

1) 80%

2) 70%

3) 60%

4) 50%

35. Cervical region (Neck) consists of -----vertebrae.

1) 7

2) 8

3) 5

4) 6

SOCIAL SCIENCE

36. The author of Silappathikaram was _____
 1. Ilango Adigal 2. Sekkizhar 3. Nackeerer 4. Kalidasar
37. The Monolithic Iron Pillar of Chandragupta is at _____
 1. Mehrauli 2. Bhitari 3. Gadgha 4. Mathura
38. One of the UNESCO World Heritage site
 1. Trivandrum 2. Mamallapuram 3. Kanchipuram 4. Chidambaram
39. Khajuraho Temple is in _____
 1. Madhya Pradesh 2. Mount Abu 3. Mandu 4. Rajasthan
40. The first Battle of Panipat was fought in the year _____
 1. 1516 2. 1526 3. 1536 4. 1546
41. Mansabdari System was introduced by
 1. Babar 2. Akbar 3. Shersha 4. Jahangir
42. Velu Nachiyar was the queen of _____
 1. Nagalapuram 2. Sivagiri 3. Sivangangai 4. Virupachi
43. Who is considered as their first Guru by the Sikhs
 1. Lehna 2. Guru Amir Singh 3. Guru Nanak 4. Guru Govind Singh
44. Who built the shore temple Mahabalipuram
 1. Narasimhavaram II 2. Nandivarman 3. Mahendravarman 4. Rajasimha
45. Sittanavasal cave is located in -----
 1. Pudukottai 2. Tirunelveli 3. Ramanathapuram 4. Tiruchirapalli
46. -----country is called “Sugar bowl of the world”
 1. America 2. India 3. Cuba 4. Canada
47. The science of map making is called _____
 1. Geography 2. Cartography 3. Physiography 4. Physical Geography
48. Barren Island is situated in _____
 1. Indian Ocean 2. Pacific Ocean 3. Andaman (Bay of Bengal) 4. Atlantic Ocean

49. The radius of the Earth is _____ km.
 1.5000 k.m 2.6000 k.m. 3.6371 k.m. 4.7000 k.m.
50. The Mushroom rocks are formed by
 1.Wind 2.Water 3.Waves 4.Sunlight
51. Which of the following planets can float on water
 1. Jupiter 2.Saturn 3.Uranus 4.Neptune
52. India is the largest producer of
 1.Gold 2.Mica 3.Coal 4.Petroleum
53. World soil day is observed on
 1.15th August 2.12th January 3.15th October 4.5th December
54. ----- is the tiny droplets of water hanging in the air
 1.Fog 2.Mist 3.Cloud 4.Dew
55. Water that is good enough to drink is called
 1. Ground water 2.Surface water 3.Potable water 4.Artesian water
56. Child help line number is -----
 1. 1908 2. 1098 3. 1809 4. 1998
57. Right to vote -----
 1.Gender equality 2.Civil equality 3.Political equality 4.Social equality
58. The year when women in India first voted in the general election.
 1. 1947 2. 1857 3. 1982 4. 1952
59. The first women President of United Nation General Assembly
 1.Vijaya Lakshmi Pandit 2.Annie Besant
 3.Arundhati Roy 4.Bachendri Pal
60. In which year the consumer protection act established
 1. 1955 2. 1986 3. 1966 4. 1980
61. In which year the Bureau of Indian Standards Act established
 1. 1986 2. 1966 3. 2009 4. 1955
62. The government of India observes road safety week awareness during _____ every year
 1. January 2.December 3.April 4.May

63. The first country to allow women to vote
 1.Greece 2.India 3.New Zealand 4.America
64. Adam Smith's Economics is based on
 1.Production 2.Income 3.Consumption 4.Wealth
65. Production refers to
 1.Destruction of utility 2.Creation of utility 3.Exchange value 4.Non of these
66. The concept "Division of Labour" was introduced by
 1.Alfred Marshal 2.Adam Smith 3.Lional Robins 4.Paul Samuelson
67. Among the following, who are responsible for Black Money?
 1.Smugglers 2.Tax evaders 3.Hoaders 4.All the above
68. Income Tax is a _____
 1.Direct Tax 2.Indirect Tax 3. (1) and (2) 4.None of these
69. Online Banking is otherwise called as
 1.E-Banking 2.Internet Banking 3.Urban Banking 4.Industrial Banking
70. ----- is money, which exists in banking computer systems and is available for transactions through electronic system.
 1.Paper Money 2.White Money 3.Electronic Money 4.Cheque

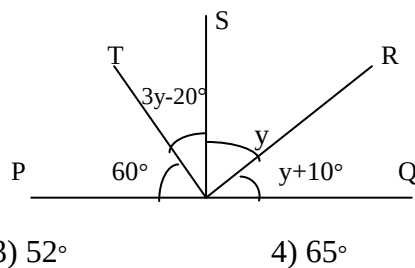
MATHEMATICS

71. A rectangular lawn is 30m by 20m. It has two roads each 2m wide running in the middle of it as shown in the figure. Then the area of roads is
 1) 96m^2 2) 100m^2 3) 600m^2 4) 504m^2
72. The mean of 5 numbers is 27. If one more number is included then the mean is 25. The included number is
 1) 15 2) 57 3) 52 4) 17
73. The ratio between diagonals of two squares is 2:1 then the ratio between their areas will be
 1) 2:1 2) 4:1 3) 3:1 4) 6:1

74. A sector of radius 42 cm has an area of 924cm. Find its perimeter
 1) 4.4cm 2) 44cm 3) 64cm 4) 128cm
75. The average of first 8 prime numbers is
 1) 4.83 2) 7.37 3) 5.83 4) 6.83
76. The angles of a triangle are in the ratio 1:1:2. Its sides will be in the ratio
 1) 1:1: $\sqrt{2}$ 2) 1: $\sqrt{3}$: $\sqrt{2}$ 3) 1:1: $\sqrt{3}$ 4) 1:2: $\sqrt{3}$
77. Anu bought a bicycle for ₹5000. He sold for ₹600 less offer two years. Find the profit or loss Percentage
 1) Profit=6% 2) Profit=12% 3) Loss=6% 4) Loss=12%
78. Which is the Smallest Ramanujam Number?
 1) 4104 2) 13832 3) 1729 4) 1728
79. By how much is $\frac{9}{10}$ km less than 1 km
 1) 0.1 km 2) 0.9 km 3) 0.01 km 4) 0.09 km
80. If P= -15 and Q=5. Find $\frac{P-Q}{P+Q}$
 1) -2 2) 2 3) 3 4) -3
81. In an election, candidate 'X' secured 48% of votes. What fraction will represent his votes?
 1) $\frac{48}{50}$ 2) $\frac{24}{100}$ 3) $\frac{12}{25}$ 4) $\frac{24}{50}$
82. The unit digit of $124 \times 36 \times 980$ is
 1) 4 2) 2 3) 6 4) 0
83. The common factors of the algebraic expressions ax^2y , bxy^2 and $cxyz$ is
 1) x^2y 2) xy^2 3) xyz 4) xy
84. The perimeter of parallelogram whose two adjacent sides are $m+n$ and $3m-7n$ is
 1) $8m+16n$ 2) $4m-6n$ 3) $8m-16n$ 4) $8m-12n$
85. Which of the rational number lies between $\frac{3}{4}$ and $\frac{4}{5}$
 1) $\frac{29}{40}$ 2) $\frac{31}{40}$ 3) $\frac{33}{40}$ 4) $\frac{27}{40}$

86. The value of $\frac{\sqrt[3]{729} - \sqrt{81}}{\sqrt[3]{1000} - \sqrt{64}}$
- 1) 0 2) 1 3) 2 4) Not defined.
87. If the area of a rhombus is 50 m^2 then the product of their diagonal is
- 1) 25 2) 50 3) 100 4) 200
88. The point of intersection of X- axis and Y- axis is
- 1) Abscissa 2) ordinate 3) origin 4) none of these.
89. The order of rotational symmetry of a hexagon is
- 1) 5 2) 4 3) 6 4) 7

90. Find the value of 'Y'



- 1) 130° 2) 26° 3) 52° 4) 65°

FOR ROUGH WORK ONLY