

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.
Things NOT ALLOWED in EXAM HALL: Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these, then keep them at a place specified by invigilator at your own responsibility.

## INSTRUCTIONS

1. This Booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
2. Fill yourTALLENTEX Form No. \& Answer Sheet No. in the space provided on the top of this page.
3. Fill your PAPER CODE in space provided (Point No. 6) of optical response sheet (ORS).
4. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black or blue ball point pen.
5. After breaking the Question Paper seal, check the following:
a. There are $\mathbf{2 0}$ pages in the booklet containing question no. 1 to 80 under 2 Parts i.e. Part-I \& Part-II.
b. Part-I contains total 20 questions of IQ (Mental Ability).
c. Part-II contains total 60 questions under 4 sections, which are Physics, Chemistry, Biology \& Mathematics.
6. Think wisely before darkening bubble as there is negative marking for wrong answer. Answer once marked by pen cannot be cancelled.
7. Marking Scheme:
a. If darkened bubble is RIGHT answer: 4 Marks.
b. If darkened bubble isWRONG answer:-1 Mark (Minus One Mark).
c. If no bubble is darkened in any question: No Mark.
8. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.
9. Do not put any stain on ORS and hand it over back properly to the invigilator.
10. You can take along the question paper after the test is over.

## PART-I

## IQ (MENTAL ABILITY)

This section contains 20 Multiple Choice Questions. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

1. In a certain code language PERIMETER is coded as ODQHLFUFS. What is the code of CHARACTER.
(1) GBZQBDUFS
(2) BGZQZDUFS
(3) SFUDBQZGB
(4) BGZBDQUFS
2. One number is missing in the series. You have to understand the pattern of the series and insert the number.
$6,126, ?, 9,108,12,7,133,19,12,72,6$
(1) 21
(2) 23
(3) 30
(4) 35
3. Find the missing character (?)

| 5 | 8 | 11 |
| :---: | :---: | :---: |
| 7 | $?$ | 4 |
| 3 | 2 | 10 |
| 71 | 98 | 127 |

(1) 8
(2) 6
(3) 9
(4) 2
4. Following figure depicts an area where people speak four different languages. The triangle depicts English speaking area, the square depicts Hindi speaking areas, the circle stands for Urdu speaking area and the rectangle for area where people speak Marathi. Each part is numbered.


Which number depicts the area where, the three languages English, Marathi and Urdu are spoken but Hindi is not spoken ?
(1) 4
(2) 11
(3) 9
(4) 8
5. A wooden cube is painted with purple on all the four adjoining faces and yellow on two opposite faces then it is into 216 identical smaller cubes then how many cubes are there having two different colour on them.
(1) 24
(2) 20
(3) 40
(4) 48
6. Amit ranks seventh from the top and twenty eighth from the bottom in a class. How many students are there in the class?
(1) 37
(2) 36
(3) 34
(4) 38
7. Read the following information and answer the question given below it:

A is the father of C . But C is not his son.

E is the daughter of $\mathrm{C} . \mathrm{F}$ is the spouse of A .
$B$ is the brother of C. D is the son of B.
G is the spouse of B. H is the father of G.
Who is the paternal grandmother of D ?
(1) A
(2) C
(3) F
(4) H
8. Given interchanges: Signs + and $\times$ and numbers 4 and 5 . Now which of the following equation is correct?
(1) $5 \times 4+20=40$
(2) $5 \times 4+20=85$
(3) $5 \times 4+20=104$
(4) $5 \times 4+20=95$
9. Going 50 m to the South of her house, Giny turns right and goes another 10 m . Then, turning to the North, she goes 26 m and then starts walking to her house. In which direction she is from the starting and at what distance ?
(1) North-West, 30m
(2) North, 28 m
(3) South-West, 26 m
(4) East, 24 m
10. If 'EAT' is written as 22267 . How will you write LIP.
(1) 141710
(2) 91211
(3) 151811
(4) 81012
11. A man is facing North-West. He turns $90^{\circ}$ in the clockwise direction and then $180^{\circ}$ in the anticlockwise direction and then another $90^{\circ}$ in the same direction. Which direction is he facing now.
(1) South
(2) South-West
(3) West
(4) South-East
12. Which circle below should replace the circle with the question mark?

(1)

(2)

(3)

(4)

13. A solid cube of each side 10 cm has been painted Red, Black and Blue on the pairs of opposite faces. It is then cut into cubical blocks of each side 2 cm . How many smaller no. of cubes can be formed?
(1) 1000
(2) 64
(3) 125
(4) 512
14. Q's mother is sister of $P$ and daughter of M.S is daughter of $P$ and sister of T. How is $M$ related to $T$ ?
(1) Grandmother
(2) Father
(3) Grandfather
(4) Grandfather or Grandmother
15. Find out the alternative figure which contains figure $(X)$ as its part

(X)

(1)
(2)

(3)
(4)
16. Choose the correct mirror image of figure from the given alternatives (1), (2), (3) \& (4).

$)(()$
(1)


(3)

(4)

(2)

17. Find the missing term (?)
$166,257,368,499,6410$, ?
(1) 8102
(2) 8111
(3) 1811
(4) 1181
18. Choose the correct water image of figure from the given alternatives (1), (2), (3) \& (4).
(1)

(2)

(3)

(4)

19. How many Quadrilaterals does this diagram have?

(1) $12-20$
(2) $42-50$
(3) 22-35
(4) 51-69
20. Choose the Venn diagram which best illustrates the three given classes in question : State, Country, City
(1)

(2)

(3)

(4)


## PART-II

## SECTION-A : PHYSICS

This section contains 15 Multiple Choice Questions. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.
21. When a bicycle wheel is in motion, many forces are acting on it. The sum of the forces results in forward motion. In which direction does friction from the ground act on the wheel?

(1) At right angles to the turn of the wheel.
(2) In the direction of the turn of the wheel.
(3) At right angles to the total forward movement.
(4) In the direction opposite to the total forward movement.
22. In figure, rays 1,2 and 3 are the incident rays and $1^{\prime}, 2^{\prime}$ and $3^{\prime}$ are the reflected rays from the region ABCD after reflection from a plane mirror kept inside ABCD . Which option shows the correct location of the plane mirror.

(1)

(2)

(3)

(4)

23. Which of the following best describes the forces being used by the dog?

(1) The dog is pulling on the ground and pulling on the rope.
(2) The dog is pulling on the ground and pushing on the rope.
(3) The dog is pushing off the ground and pulling on the rope.
(4) The dog is pushing off the ground and pushing on the rope.
24. An object is at a distance 25 cm in front of a plane mirror. The mirror is shifted 5 cm away from the object. Find the distance between the two positions of the image.

(1) 5 cm
(2) 10 cm
(3) 15 cm
(4) 20 cm
25. This graph represents the cooling curve for a pure substance in a liquid state at $t=0$ min. Why does temperature remain constant from $t=2 \min$ to $t=5 \mathrm{~min}$ ?

(1) because the substance absorbs heat energy as it changes from a liquid to a solid
(2) because heat energy is released from the substance as it changes from a liquid to a solid
(3) because heat energy is released from the substance as it changes from a liquid to a gas
(4) because the substance absorbs heat energy as it changes from a liquid to a gas
26. A student attaches four drawing pins to a copper rod using candle wax as shown in the diagram. The rod is then heated continuously at one end and the pins fall off in the order $4,3,2,1$.


By which process does heat reach the pins?
(1) expansion
(2) radiation
(3) conduction
(4) convection
27. The picture shows some keys on a piano.


Sounds are made when the keys are pushed. What can be done to the piano keys for the sounds to change pitch?
(1) push different keys
(2) push one key softly
(3) push one key many times
(4) push harder on the same key
28. 1 hertz equals
(1) 1 vibration per minute
(2) 10 vibrations per minute
(3) 60 vibrations per minute
(4) 600 vibrations per minute
29. Diagram of human eye is given below. Correctly identify A, B, C, D and E

(1) A- optic nerve, B- iris, C-lens, D- cornea, E- ciliary muscles
(2) A- optic nerve, B- ciliary muscles, C-lens, D- iris, E- cornea
(3) A- optic nerve, B-lens, C- iris, D- cornea, E- ciliary muscles
(4) A- optic nerve, B- ciliary muscles, C-lens, D- cornea, E- iris
30. A boy travels from point $A$ to point $E$ via path $A B C D E$. If $E$ is centre of square $A B D F$ then the distance and displacement of the boy in meters is $\left(\pi=\frac{22}{7}\right)$

(1) $36+7 \sqrt{2}, 7$
(2) $36+7 \sqrt{2}, 7 \sqrt{2}$
(3) $7 \sqrt{2}, 36+7 \sqrt{2}$
(4) 7,43
31. Four materials, $W, X, Y$ and $Z$, are connected in the electrical circuit shown below.


Which one of the following sets correctly represents the materials, $\mathrm{W}, \mathrm{X}, \mathrm{Y}$ and Z , in the electrical circuit so that only two of the bulbs light up ?

| Material W | Material X | Material Y | Material Z |
| :--- | :--- | :--- | :--- |
| (1) brass | glass | porcelain | copper |
| (2) wood | plastic | rubber | gold |
| (3) iron | glass | wood | steel |
| $(4)$ lead | porcelain | iron | glass |

32. The fuse found in a plug will $\qquad$ when too much $\qquad$ passes through it.

The circuit is now $\qquad$ and the electrical appliance is protected from catching fire.
Which the following correctly represents (p), (q) and (r) ?

| (p) | $(\mathbf{q})$ | (r) |
| :--- | :--- | :--- |
| (1) melt | current | open |
| (2) boil | voltage | broken |
| (3) decompose | electricity | open |
| (4) burn | energy | closed |

33. A car is parked on a road. The correct graph is
(1)

(2)

(3)

(4)

34. An athlete ran a distance of 8 m in 16 s . The graph below shows her motion. Which best describes her motion?
(1) Her speed was constantly changing.
(2) Her speed remained constant.
(3) She stopped moving after four seconds.
(4) She decreased her speed after four seconds.

35. Study the circuit shown here. Which switch if opened will cause the light bulb to stop glowing ?

(1) P
(2) Q
(3) R
(4) S

## SECTION-B : CHEMISTRY

This section contains 15 Multiple Choice Questions. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.
36. Match the remedies with their problems and select the correct option from the codes given below.

| Remedy |  | Problem |  |
| :--- | :--- | :--- | :--- |
| (a) | Baking soda | (p) | Acidic soil |
| (b) | Calamine | (q) | Acidity in stomach |
| (c) | Organic matter | (r) | Pain from ant sting |
| (d) | Lime water | (s) | Basic soil |

(1) a-s, b-q, c-p, d-r
(2) a-q, b-r, c-s, d-p
(3) a-r, b-q, c-p, d-s
(4) a-p, b-q, c-r, d-s
37. Which of the following statements is/are correct about an aqueous solution of an acid and of a base?
(i) Higher the pH , stronger the acid
(ii) Higher the pH , weaker the acid
(iii) Lower the pH , stronger the base
(iv) Lower the pH , weaker the base
(1) (i) and (iii)
(2) (ii) and (iii)
(3) (i) and (iv)
(4) (ii) and (iv)
38. On the basis of following features identify the correct fabric.
I. It is prepared by condensation polymerisation of two monomers.
II. It is very durable.
III. It is used in making certain draperies and magnetic recording tapes.
IV. This fabric has two common names.
(1) Nylon
(2) Rayon
(3) Polyester
(4) Acrylic
39. Study the following equations and select the correct option.
$2 \mathrm{~A}+2 \mathrm{~B} \longrightarrow 2 \mathrm{AOH}+\mathrm{H}_{2}$
$\mathrm{P}+\mathrm{O}_{2} \longrightarrow \mathrm{C}$
$\mathrm{C}+\mathrm{B} \longrightarrow \mathrm{D}$

| A |  | B | C | D |
| :---: | :---: | :--- | :--- | :--- |
| $(1)$ | S | $\mathrm{H}_{2} \mathrm{O}$ | POH | $\mathrm{H}_{3} \mathrm{PO}_{3}$ |
| $(2)$ | Na | $\mathrm{H}_{2} \mathrm{O}$ | $\mathrm{PO}_{3}$ | $\mathrm{H}_{3} \mathrm{PO}_{3}$ |
| $(3)$ | K | $\mathrm{H}_{2} \mathrm{O}$ | $\mathrm{P}_{2} \mathrm{O}_{5}$ | $\mathrm{H}_{3} \mathrm{PO}_{4}$ |
| $(4)$ | C | $\mathrm{H}_{2} \mathrm{O}$ | $\mathrm{P}_{2} \mathrm{O}_{5}$ | $\mathrm{H}_{3} \mathrm{PO}_{3}$ |

40. Formation of clouds, mist and fog are the examples of $\qquad$ .
(1) chemical combination of $\mathrm{O}_{2}$ and $\mathrm{H}_{2} \mathrm{O}$
(2) physical change which involve condensation of water vapour
(3) physical change which involves sublimation
(4) chemical change which involves absorption of huge amount of energy
41. Which of the following is correctly defines an aquifer ?
(1) Water percolates into the soil and remains there as moisture
(2) Clouds bring fresh water as rain to the land
(3) The ground water is stored in between layers of porous rocks
(4) Rain water is used to recharge ground water
42. Observe the given figure carefully and select the correct option.

I. A white precipitate is obtained.
II. Effervescence is observed in the test tube containing lime water.
(1) II only
(2) I only
(3) Both I and II
(4) Neither I nor II
43. The metallic salt solution that gives a 'reddish brown precipitate' with Ammonium hydroxide is
(1) $\mathrm{FeCl}_{3}$
(2) $\mathrm{Pb}\left(\mathrm{NO}_{3}\right)_{2}$
(3) $\mathrm{ZnSO}_{4}$
(4) $\mathrm{CuSO}_{4}$
44. Which of the following is commonly called polyamide?
(1) Orlon
(2) Nylon
(3) Terylene
(4) Rayon
45. Which acid is used in soda acid fire extinguisher ?
(1) $\mathrm{HNO}_{3}$
(2) HCl
(3) $\mathrm{H}_{2} \mathrm{SO}_{4}$
(4) $\mathrm{CH}_{3} \mathrm{COOH}$
46. Which of the following is the best explanation for statement ?
"Polystyrene foam is used in insulating refrigrators and cold stores".
(1) Polystyrene foam is heavy thus acts as a proper insulator.
(2) Polystyrene foam is the cheapest among all rest insulators.
(3) When air is blown through molten polystyrene it forms light foam, which is excellent insulating and packaging material.
(4) Polystyrene foam is biodegradable in comparison to rest polymeric insulators.
47. A group of scientists discovered that certain stretches of the River Muai were polluted with toxic chemicals.

$\square$ clean water
toxic chemicals found in the river

Which factory/factories was/were most likely responsible for the water pollution ?
(1) Factory X
(2) Factory Z
(3) Factory Y
(4) Not possible to tell
48. Identify raw material used for making microwave oven-wares.
(1) Polyethylene
(2) Polyvinyl chloride
(3) Polypropylene
(4) Polytetrafluoroethylene
49. Which oxide can be reduced to the metal using carbon ?
(1) Zinc oxide
(2) Magnesium oxide
(3) Sodium oxide
(4) All of these
50. Which of the following is not an example of physical change ?
(1) Dissolving sugar in water
(2) Casting iron in moulds
(3) Setting of cement
(4) Magnetisation of iron

## SECTION-C : BIOLOGY

This section contains 15 Multiple Choice Questions. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.
51. Which statement about the mammalian circulatory system is correct?
(1) The thickness of walls of veins is greater than that of arteries.
(2) The order of decreasing velocity of blood flow is : veins > capillaries > arteries.
(3) The total surface area of the capillaries is considerably greater than that of all the arteries and veins combined.
(4) In order to return blood to the heart, the blood pressure in veins is higher than it is in the arteries.
52. Select the incorrect statement.
(1) Phloem tubes are only found in the leaves of plants as this is where the sugars are made.
(2) Volume of blood in an average human adult is 10 liters.
(3) Blood contains many more white blood cells than red blood cells.
(4) All of the above
53. Study the food chain carefully.


Which of these can we say about organisms X and Y based on the above figure ?
(1) X is a carnivore, Y is a herbivore
(2) X is an omnivore, Y is a carnivore
(3) X is a herbivore, Y is a herbivore
(4) X is a carnivore, Y is an omnivore
54. Study the food chain given below

$$
\text { maize } \rightarrow \text { mouse } \rightarrow \text { weasel } \rightarrow \text { hawk }
$$

The population of hawks over a period of time is represented by the graph shown below.


Which of the following show how the other populations are affected ?
(A)There is a decrease in the population of the weasels.
(B) There is an increase in the population of the maize.
(C) There is a decrease in the population of the maize.
(D) There is an increase in the population of the mouse.
(1) A and C
(2) A, C and D
(3) A and D
(4) B, C and D
55. Observe the given apparatus carefully showing an activity performed to compare the carbon dioxide content of inhaled and exhaled air. What would be the observation for $T_{1}$ and $T_{2}$ test tubes and its correct explanation? [(+) indicates milky colouration in limewater]


| $\mathbf{T}_{\mathbf{1}}$ | $\mathbf{T}_{\mathbf{2}}$ |
| :--- | :--- |
| (1) +++ | ++ |
| $(2)++++$ | + |
| $(3)+$ | ++++ |
| $(4)++$ | ++ |

## Explanation

$\mathrm{CO}_{2}$ content is a little higher in inhaled air $\mathrm{CO}_{2}$ content is considerably higher in inhaled air $\mathrm{CO}_{2}$ content is considerably higher in exhaled air
$\mathrm{CO}_{2}$ content is same in both inhaled and exhaled air
56. Match column I with column II and select the correct option from the codes given below.

## Column I

(a) Earthworm
(b) Human
(c) Prawn
(d) Insects
(1) (a) - (i), (b) - (ii), (c) - (iii), (d) - (iv)
(2) (a) - (iv), (b) - (i), (c) - (ii), (d) - (iii)
(3) (a) - (iii), (b) - (ii), (c) - (iv), (d) - (i)
(4) (a) - (iv), (b) - (ii), (c) - (i), (d) - (iii)
57. Which is the odd one out?

Karan swiss; Karan fries; Sahiwal; Frieswal
(1) Sahiwal
(2) Karan swiss
(3) Karan fries
(4) Frieswal
58. Combine is a machine used for
(1) irrigation
(2) sowing
(3) transplantation
(4) harvesting
59. Given below are steps written randomly for the experiment to show that light is essential for photosynthesis.
(i) Pluck the leaf to be experimented
(ii) Cover a portion of leaf on both sides by using strips of black paper
(iii)Keep the plant in dark place for three days to destarch its leaves
(iv)Test the experimental leaf for the presence of starch
(v) Expose the plant to sunlight for four hours
(vi)Remove the black paper strips from the leaf

Which of the following sequences of steps is to be followed for the successful run of the experiment?
(1) (i), (iii), (ii) (iv), (v), (vi)
(2) (ii), (i), (v), (vi), (iii), (iv)
(3) (iii), (ii), (v), (i), (vi), (iv)
(4) (v), (ii), (i), (iii), (iv), (vi)
60. In which part of alimentary canal does the digestion of fats get completed ?
(1) Stomach
(2) Food pipe
(3) Small intestine
(4) Large intestine
61. Unicellular organisms rarely grow larger than 1 mm in diameter. Beyond this size,
(1) cells become visible to predators.
(2) it is not possible for mitosis (cell division) to occur.
(3) cell membranes begin to disintegrate.
(4) diffusion alone is not adequate for nutrient supply.
62. Extranuclear DNA is found in
(1) Chloroplast
(2) Endoplasmic Reticulum
(3) Ribosomes
(4) Nucleus
63. Which of the following is an example of cell devoid of nuclear membrane and mitochondria ?
(1) Bacterial cell
(2) Sperm
(3) Protist
(4) Sponge cell
64. The illustrations below are of a euglena, a paramecium, and an amoeba.


How do these microorganisms compare ?
(1) They use different structures for movement.
(2) They use different structures to control cell activity.
(3) They all make their own food by photosynthesis.
(4) They all have eyespots to sense sunlight.
65. The pathogen Microsporum responsible for ringworm disease in humans belongs to same group of organisms as that of
(1) Plasmodium, a protozoa
(2) Ascaris, a roundworm
(3) Rhizopus, a mould
(4) Clostridium, a bacteria

## SECTION-D : MATHEMATICS

This section contains 15 Multiple Choice Questions. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.
66. The number of non-negative integers which are less than one thousand and end with only one zero is
(1) 90
(2) 99
(3) 91
(4) 100
67. Find the value of given mixed fraction and express in decimal form.
$\frac{6 \frac{1}{4}-5 \frac{3}{4}+6 \frac{2}{4}}{4 \frac{1}{5}+6 \frac{2}{5}-2 \frac{3}{5}}$
(1) 0.875
(2) 0.675
(3) 1.225
(4) 0.450
68. If A : If the hypotenuse and an acute angle of one right triangle is equal to the hypotenuse and corresponding acute angle of another right triangle, then those two triangles are congruent R : By RHS property, the two right triangles are congruent. Then which of the following statements is true?
(1) A is true and $R$ is not the correct explanation of $A$.
(2) A is false and R is the correct explanation of A .
(3) $A$ is false and $R$ is false.
(4) None of these.
69. In $\triangle \mathrm{ABC}, \mathrm{m} \angle \mathrm{BAC}=70^{\circ}$. Point D lies on $\overleftrightarrow{\mathrm{BC}}$ such that $\angle \mathrm{ACD}$ become exterior of $\triangle \mathrm{ABC}$. If $\mathrm{m} \angle \mathrm{ACD}=120^{\circ}$ then the value of $\angle \mathrm{ABC}$ is $\qquad$ .
(1) $50^{\circ}$
(2) $60^{\circ}$
(3) $20^{\circ}$
(4) none of these
70. Kritika shades various shapes on square sheets of paper, as shown. How many of these shapes have the same perimeter as the sheet of paper itself?

(1) 2
(2) 3
(3) 4
(4) 5
71.


Which of the following is/are the net of the above prism ?
I.

II.

III.

(1) I only
(2) II only
(3) III only
(4) I and III only
72. The value of $\frac{1}{1 \times 2}+\frac{1}{2 \times 3}+\frac{1}{3 \times 4}+\frac{1}{4 \times 5}+\frac{1}{5 \times 6}+\frac{1}{6 \times 7}+\frac{1}{7 \times 8}$ is
(1) $\frac{8}{7}$
(2) $\frac{7}{8}$
(3) 1
(4) $\frac{1}{1569}$
73. A bag contains some marbles. Half of the marbles are given to $A, \frac{1}{3}$ of the remaining to $B$ and the remaining to C . If C has twice that of B , then the number of marbles is
(1) exactly 12
(2) exactly 18
(3) no unique solution
(4) none of these
74. If the sum of interior angles of a polygon is 3 times the sum of its exterior angles, then the number of sides of the polygon is
(1) 6
(2) 8
(3) 10
(4) 12
75. A general wishes to draw up his 36562 soldiers in the form of a solid square. After arranging them, he found that some of them are left over. How many are left ?
(1) 36
(2) 65
(3) 81
(4) 97
76. Three numbers are in the ratio $2: 3: 4$, if sum of their cubes is 33957 , then the sum of numbers is
(1) 14
(2) 21
(3) 28
(4) 63
77. Simplify: $8^{\frac{1}{3}}+25^{\frac{1}{2}}-81^{\frac{1}{4}}$
(1) 4
(2) 3
(3) -2
(4) 0
78. Mahesh has certain number of problems with him. He can solve some fixed number of problems every hour. After solving for 5 hours, he is left with 384 problems. If he had solved for 10 hours, he is left with 144 problems to solve. Find the number of problems with Mahesh initially.
(1) 600
(2) 584
(3) 624
(4) 734
79. The squares on the figure are formed by intersecting the segment $A B$ by the broken line $A_{1} A_{2} \ldots A_{12} B$. The length of $A B$ is 24 cm . What is the length of the broken line $\mathrm{AA}_{1} \mathrm{~A}_{2} \ldots \mathrm{~A}_{12} \mathrm{~B}$ ?

(1) 48 cm
(2) 72 cm
(3) 96 cm
(4) 56 cm
80. How many numbers in a set $\left\{\frac{5}{4}, \frac{11}{8}, \frac{13}{5}, \frac{7}{4}, \frac{97}{59}\right\}$ are between 1 and 2 ?
(1) 1
(2) 2
(3) 3
(4) 4

SPACE FOR ROUGH WORK

## ALIEN Champion's Day 2015



## No Examination

## Just Nomination!



## Answersoy

# Class- $8^{\text {th }}$ (VIII) 

 Held on : 04 October 2015| Q.No. | Ans |
| :---: | :---: |
| 1 | 2 |
| 2 | 1 |
| 3 | 2 |
| 4 | 3 |
| 5 | 3 |
| 6 | 3 |
| 7 | 3 |
| 8 | 3 |
| 9 | 3 |
| 10 | 3 |
| 11 | 4 |
| 12 | 1 |
| 13 | 3 |
| 14 | 4 |
| 15 | 2 |
| 16 | 1 |
| 17 | 2 |
| 18 | 3 |
| 19 | 3 |
| 20 | 1 |
|  |  |


| Q.No. | Ans |
| :---: | :---: |
| 21 | 4 |
| 22 | 1 |
| 23 | 3 |
| 24 | 2 |
| 25 | 2 |
| 26 | 3 |
| 27 | 1 |
| 28 | 3 |
| 29 | 4 |
| 30 | 2 |
| 31 | 4 |
| 32 | 1 |
| 33 | 1 |
| 34 | 2 |
| 35 | 1 |
| 36 | 2 |
| 37 | 4 |
| 38 | 3 |
| 39 | 3 |
| 40 | 2 |
|  |  |


| Q.No. | Ans |
| :---: | :---: |
| 41 | 3 |
| 42 | 2 |
| 43 | 1 |
| 44 | 2 |
| 45 | 3 |
| 46 | 3 |
| 47 | 3 |
| 48 | 3 |
| 49 | 1 |
| 50 | 3 |
| 51 | 3 |
| 52 | 4 |
| 53 | 4 |
| 54 | 2 |
| 55 | 3 |
| 56 | 2 |
| 57 | 1 |
| 58 | 4 |
| 59 | 3 |
| 60 | 3 |


| Q.No. | Ans |
| :---: | :---: |
| 61 | 4 |
| 62 | 1 |
| 63 | 1 |
| 64 | 1 |
| 65 | 3 |
| 66 | 3 |
| 67 | 1 |
| 68 | 1 |
| 69 | 1 |
| 70 | 3 |
| 71 | 3 |
| 72 | 2 |
| 73 | 3 |
| 74 | 2 |
| 75 | 3 |
| 76 | 4 |
| 77 | 1 |
| 78 | 3 |
| 79 | 2 |
| 80 | 4 |
|  |  |



