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SAMPLE TEST PAPER
for
CLASS VI

"TALLENTEX COORDINATION CELL"

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INSTRUCTIONS

Time duration: 2:00 hours.

Maximum Marks: 320

This Question Paper contains 80 MCQs with 4 choices (Subjects: Physics: 12, Chemistry: 11, Biology: 12 & Maths: 25, Mental ability: 20).

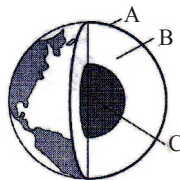
Marking Scheme: For each correct answer **4 marks** are awarded. In case of no response zero mark will be awarded. (There is **NO NEGATIVE** marking).

ALLEN

SECTION-A : PHYSICS

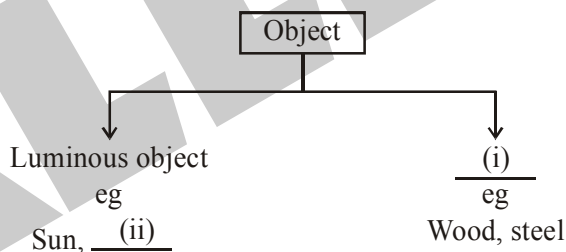
This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

1. The picture shows the three main layers of the Earth.



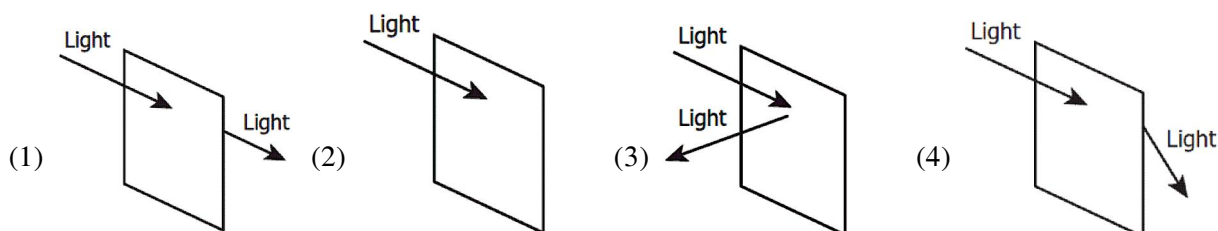
Where is it the hottest?

- (1) Layer A (2) Layer B
(3) Layer C (4) All three layers have the same temperature.
2. Red planet of our solar system is
(1) Mars (2) Saturn (3) Neptune (4) Earth
3. Which of the following is 'NOT' a periodic motion?
(1) A swinging pendulum (2) Hands of clock
(3) Rotation of earth (4) A flying kite
4. Study the flowchart carefully and fill in the blanks.



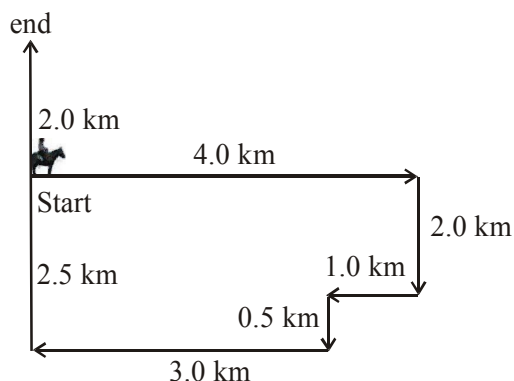
- (i)
(1) Bulb
(2) Non-Luminous object
(3) Non-Luminous object
(4) Bulb
- (ii)
Non-luminous object
Rubber
Tube light
Luminous object

5. Which of these correctly shows how light acts when it hits a mirror?



6. Which of the following sets contains only objects that shine as a result of reflected light?
(1) moons, planets, and comets (2) moons, comets, and stars
(3) planets, stars, and comets (4) planets, stars, and moons

7. A rancher surveyed his property to make sure there were no breaks in his fence. He rode his horse around his entire property and then ended at home, as shown in the figure below.



How much total distance he covered ?

- (1) 10 km (2) 12 km (3) 14 km (4) 15 km
8. The distance between Delhi and Mumbai is usually expressed in units of
 (1) Decimetre (2) Metre (3) Centimetre (4) Kilometre
9. The chart below describes two different motions of Earth. Identify these two Earth motions.

Description of Earth Motion	Name of Earth Motion
Earth moves in a path around the sun, causing one year.	(i)
Earth spins around once every 24 hours, causing day and night.	(ii)

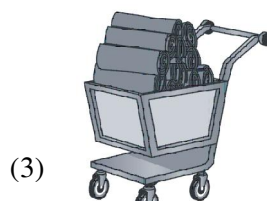
- (1) (i) Rotation (ii) Revolution (2) (i) Revolution (ii) Rotation
 (3) (i) Rotation (ii) Rotation (4) (i) Revolution (ii) Revolution
10. Four students push carts filled with sports equipment across the gym. Each student pushes with the same amount of force. Which cart has the greatest change in speed?



12 tennis rackets
m = 10 kg



15 sports balls
m = 15 kg



18 exercise mats
m = 20 kg



28 pieces of rope
m = 25 kg

11. Which of these objects is a type of screw?
 (1) Flagpole (2) Door stopper (3) Roller skates (4) Jar lid
12. When we push or pull something, we apply
 (1) Muscular force (2) Gravitational force
 (3) Elastic force (4) Buoyant force





SECTION-B : CHEMISTRY

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

13. If you cool down a liquid, you take energy away from it; the particles will start moving closer each other and not move much anymore. This process is known as _____ and now the substance is said to be in ____ state.

- (1) melting, liquid (2) freezing, solid
(3) condensation, liquid (4) evaporation, gas

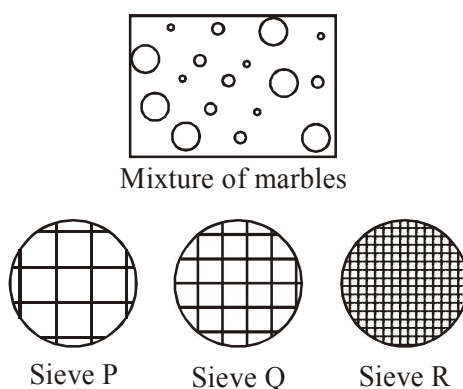
14. Which of the following modes of transport uses a renewable energy source?

- (1)  Airplane
- (2)  Hot air balloon
- (3)  Solar powered car
- (4)  Lorry

15. Glass is a good material to use as a container for some chemicals. Which of these is a chemical property of glass that makes it well-suited for this use?

- (1) It is brittle and easy to shatter. (2) It is solid and unlikely to melt.
(3) It is inert and unlikely to react. (4) It is clear and easy to see through.

16. Shaheen has a mixture of marbles of three different sizes. She and her friends wanted to separate this mixture using any two of the three sieves shown.



Peter choose sieves P and Q.

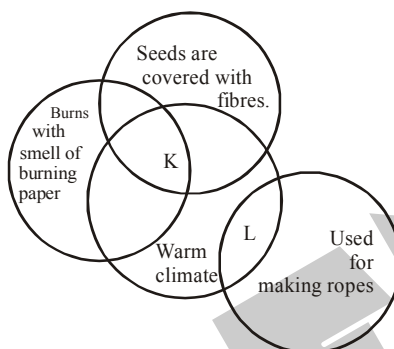
Sunita choose sieves P and R.

Shaheen choose sieves Q and R.

Who would have been able to separate the marbles into all the three types?

- (1) Peter (2) Sunita
(3) Shaheen (4) All three were able to separate all the marbles

17. Crystallisation technique is better than simple evaporation technique as _____.
 (1) Some solids are evaporated with solvent
 (2) Some solids decompose or some may get charred on heating to dryness
 (3) Some impurities may remain dissolved in the solution even after filtration, which on evaporation contaminate the solid
 (4) Both (2) and (3)
18. What is the name of process which involves twisting of strands of fibres ?
 (1) Ginning (2) Weaving (3) Retting (4) Spinning
19. Study the venn diagram and identify 'K'.



- (1) Jute (2) Cotton (3) Hemp (4) All of these
20. Match the entries of column – I with those in column – II.

Column - I		Column - II	
i.	Drying of wet clothes	(p)	Sublimation
ii.	Decrease in the size of naphthalene balls	(q)	Condensation
iii.	Formation of clouds	(r)	Solidification
iv.	Formation of ice from water	(s)	Evaporation

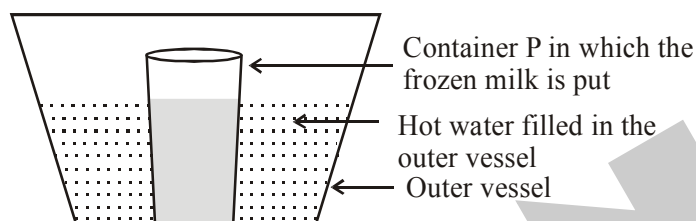
- (1) i – q, ii – s, iii – p, iv – r (2) i – r, ii – s, iii – q, iv – p
 (3) i – s, ii – p, iii – q, iv – r (4) i – p, ii – s, iii – q, iv – r
21. The picture below shows an airplane spraying pesticides on crops in a field.



Which type of pollution is this agricultural practice likely to cause?

- (1) Only air (2) Both air and soil
 (3) Only soil and water (4) None of these

22. Radhika wants to recover large quantity of salt mixed with sand. She added water and stirred well but some salt remained undissolved. The undissolved salt remained mixed with the sand and could not be recovered. Her problem can be solved by
- (1) adding a large quantity of water
 - (2) heating the solution below the boiling point of solvent
 - (3) cooling the solution
 - (4) Either (1) or (2)
23. Ellen has a packet of frozen milk. She wants to bring the milk to room temperature as soon as possible. She uses the following set-up to melt the milk.

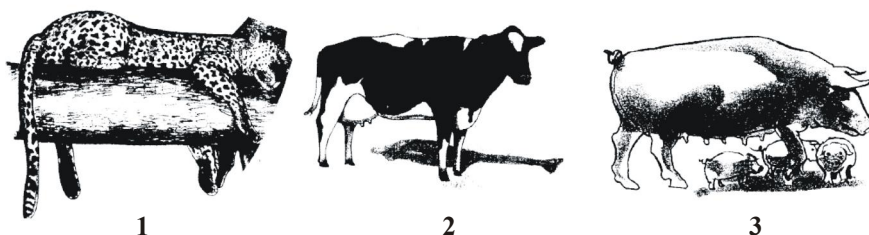


- Which of the following materials should container P be made of for the milk to melt the quickest?
- (1) Wood
 - (2) Glass
 - (3) Steel
 - (4) Clay

SECTION-C : BIOLOGY

This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

24. Herbivores are animals which eat only plants. Carnivores are animals which eat only meat. Omnivores are animals which eat both plants and meat. Herbert observed the following animals



The correct order from 1 to 3 is

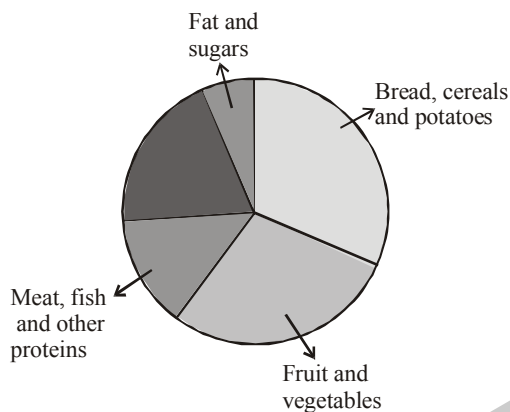
- (1) Herbivore; Carnivore; Omnivore
 - (2) Omnivore; Carnivore; Herbivore
 - (3) Carnivore; Herbivore; Omnivore
 - (4) Herbivore; Omnivore; Carnivore
25. The paragraph below gives some facts about a type of turtle. Read the passage carefully and give answer to the following question.

The turtle eats grass and smaller animals. The colours on its shell allow it to blend in with the forest floor. The turtle moves slower than its predators, such as foxes. When the turtle senses danger, it hides inside its hard shell.

Turtle is a

- (1) Aggressive animal
- (2) Shy animal
- (3) Dangerous animal
- (4) Carnivore

26. As seen in the pie chart bread, cereals and potatoes occupy the maximum portion of a balanced diet. These food items are a source of



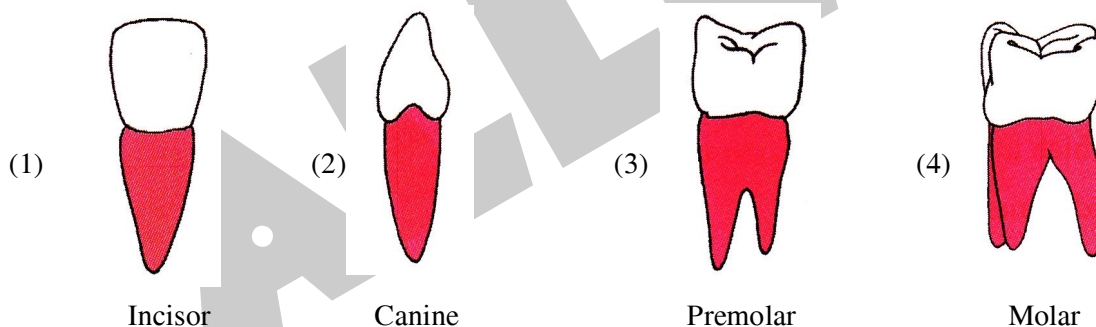
(1) carbohydrates

(3) fats

(2) proteins

(4) minerals

27. Which of the following teeth helps in tearing the food ?



28. Read the following four lines of a given poem.

*Green plants are busy factories
that keep us alive.
Without them we would have no meat,
No honey from the hive*

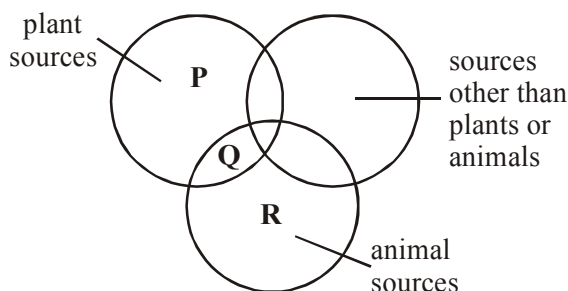
What does the poem tell us?

- (i) Green plants produce food. (ii) Animals are dependent on plants.
(iii) Plants are depended on animals for food. (iv) Animals and people need plants.

Choose the correct combination of answers.

- (1) (i), (iii) and (iv) (2) (i) , (ii) and (iv)
(3) (ii), (iii) and (iv) (4) (i) , (ii) and (iii)

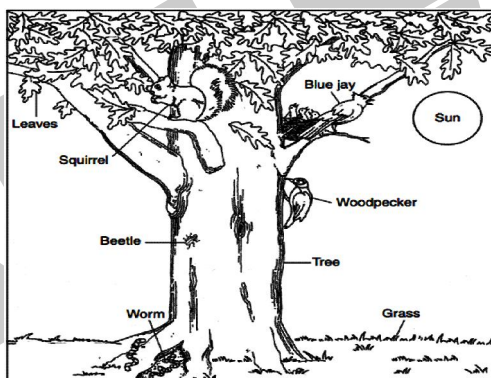
29. Study the venn diagram given below. Each circle in the Venn diagram represents a group of different sources of food. Objects placed in the area where two or more circles overlap represent the sources present in the respective circles.



Which option lists the different kinds of food correctly in P, Q and R ?

P	Q	R
(1) Carrot	Wheat	Meat
(2) Rice	Oil	Eggs
(3) Milk	Eggs	Pulses
(4) Apple	Meat	Honey

30. Look at the diagram given below. The diagram shows some organisms living together.



Which of the following group of organisms are producers in this diagram?

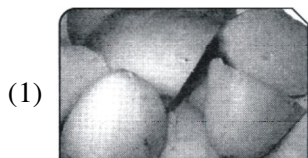
- | | |
|-----------------------------|-------------------------|
| (1) Blue jay and Woodpecker | (2) Beetle and Squirrel |
| (3) Worm and Beetle | (4) Tree and Grass |

31. Match the List-I with List-II and choose the correct option.

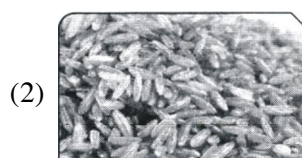
List-I	List-II
A. We should keep the eatables	1. clean our blood.
B. Our kidneys	2. fights against the diseases.
C. Immune system of our body	3. mosquito biting.
D. Malaria is caused by	4. covered.

	A	B	C	D
(1)	1	2	3	4
(2)	2	3	1	4
(3)	4	1	2	3
(4)	4	3	2	1

32. Which of the following is a list of abiotic parts of an environment?
- (1) Soil, Leaves, and Flowers (2) Soil, Rocks, and Water
(3) Rocks, Leaves, and Water (4) Water, Rocks, and Tadpoles
33. If left on a table in a room, which of the following four food items is most likely to remain without getting spoilt for the longest time ?



Boiled potato



Raw rice



Apple



Bread

34. Pick out the correct statement in concern with the pictures in options.

(1)



I am a producer.

(2)



I am a saprophyte.

(3)



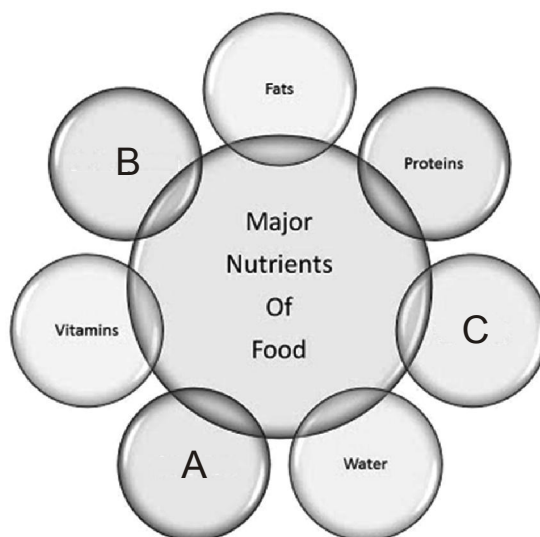
I do not respire.

(4)



I help in maintaining the balance of oxygen.

35. Observe the given figure. A is helpful in preventing constipation. Identify A?

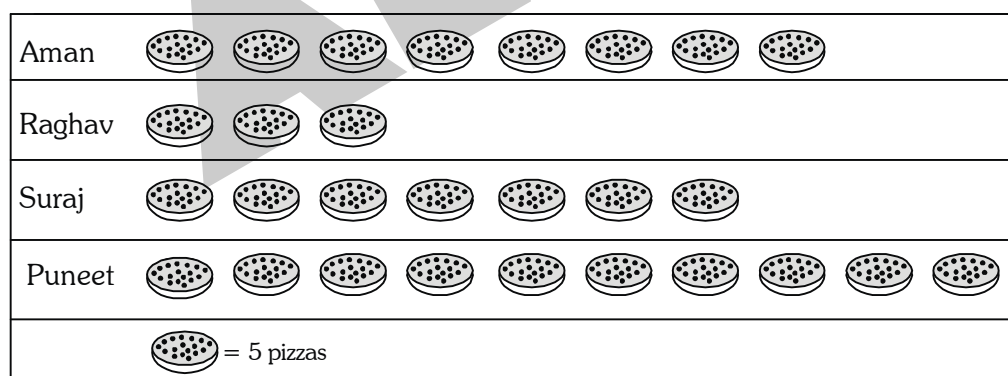


- (1) Minerals (2) Vitamins (3) Roughage (4) Carbohydrates

SECTION-D : MATHEMATICS

This section contains **25 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

36. The following pictograph represents the number of pizzas delivered in a day by four delivery boys of a restaurant.



Use the information provided in the pictograph to answer the given question
How many pizzas were delivered in all?

- (1) 140 (2) 120 (3) 28 (4) 135

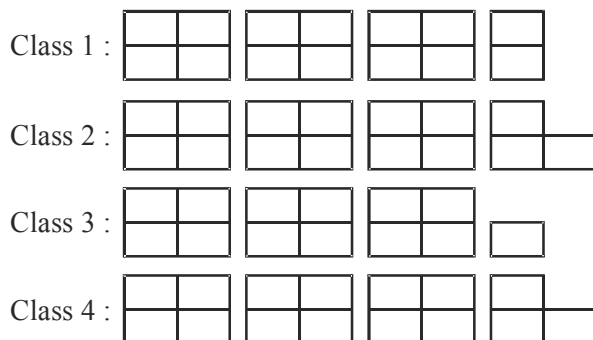
37. Find the weight of 25 packets of biscuits, if each packet weighs $2\frac{4}{5}$ kg.


- (1) 80 kg (2) 70 kg (3) 90 kg (4) 75 kg

38. $(-144) \div (+16) =$

- (1) 9 (2) 11 (3) -9 (4) -11

39. Strength of a school is given in below pictograph. Find the total number of students in class 1 to class 3.



Note :  represent 20 students.

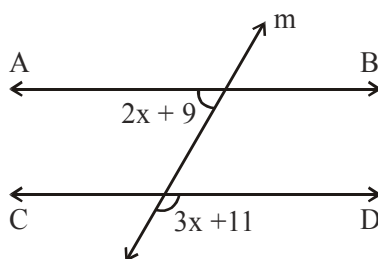
- (1) 200 (2) 205 (3) 210 (4) 215
40. The minimum number of points of intersection of three lines in a plane is
(1) 1 (2) 0 (3) 3 (4) 4
41. Perimeter of a rectangle is 60 cm. What is the maximum area of such rectangle if we consider all such rectangles formed with given perimeter?
(1) 175 sq cm (2) 200 sq cm (3) 225 sq cm (4) 250 sq cm
42. Use the pictograph given below to answer how much more snow fell in week 1 than in week 2.

Snowfall In December

Week 1	★ ★ ★ ★
Week 2	★
Week 3	★ ★
Week 4	★ ★ ★

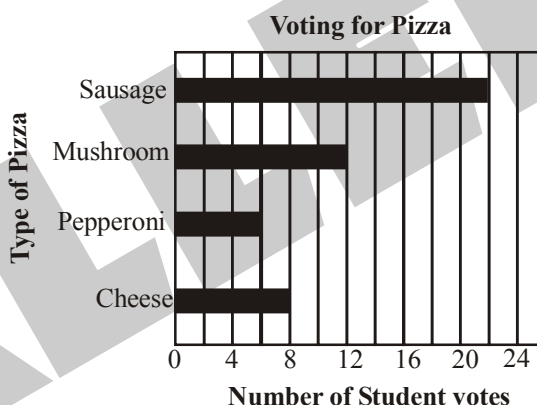
Key : Each ★ stands for 3 inches

- (1) 3 inches (2) 9 inches (3) 6 inches (4) 2 inches
43. In the given figure $AB \parallel CD$, if m is transversal, then find the value of x .





































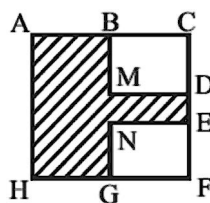
- (1) 23 (2) 32 (3) 45 (4) 54
44. Kaushal rolls a wheel along a straight line. The wheel covers distance of 19.8 m and makes 21 rotations. Find radius of the wheel (in cm).
(1) 9 (2) 11 (3) 12 (4) 15

45. $(-32) \times (-4) \times (-3) \times 0 \times (-6) =$
 (1) 27,648 (2) 276,480 (3) 0 (4) $-27,648$
46. Forty crores four thousand in numeral form is equal to
 (1) 404000 (2) 400004000 (3) 4004000 (4) 40004000
47. Kangana started an exercise program. During the first week she walked $\frac{1}{2}$ km every day. Every week she increased the distance she walked each day by $\frac{1}{2}$ km. Which method can be used to determine the number of kilometer Kangana walked each day during the ninth week of her exercise program?
 (1) Multiply 9 by $\frac{1}{2}$ (2) Add $\frac{1}{2}$, 9 times
 (3) Both (1) and (2) (4) None of these
48. The graph below shows the number of students in a math club who voted for each of four types of pizza.

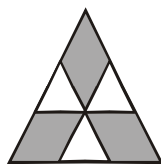


- Which statement is best supported by the graph ?
- (1) The number of students who voted for sausage pizza is 2 times the number of students who voted for mushroom pizza.
 (2) The number of students who voted for sausage pizza is 13 more than the number of students who voted for cheese pizza.
 (3) The number of students who voted for pepperoni pizza is 6 fewer than the number of students who voted for mushroom pizza.
 (4) The number of students who voted for cheese pizza is 1 more than the number of students who voted for pepperoni pizza.
49. A man complete $\frac{1}{7}$ of his project in $3\frac{1}{14}$ days. How long would he take to complete the whole project?
 (1) 21 days (2) $22\frac{1}{2}$ days (3) $21\frac{1}{2}$ days (4) 23 days

50. The difference between the place value of 6 in the number 26,28,162 is
(1) 589940 (2) 599940 (3) 0 (4) None of these
51. HCF of two numbers is 4 and their LCM is 84. If one number is 12, find the other number.
(1) 28 (2) 26 (3) 24 (4) 22
52. If $\frac{144}{0.144} = \frac{14.4}{x}$, then the value of x is
(1) 0.0144 (2) 1.44 (3) 14.4 (4) 144
53. The pictograph given below shows how many letters were collected from a post box on each of the days of a certain week.
- | | | |
|-----------|---|---|
| Monday | – |        |
| Tuesday | – |      |
| Wednesday | – |     |
| Thursday | – |       |
| Friday | – |         |
| Saturday | – |    |
-  = 10 letters
- On which day were the minimum number of letters collected?
(1) Tuesday (2) Wednesday (3) Friday (4) Saturday
54. Aunt A, Aunt B and Uncle C divided 19.765 kg of wheat flour equally among themselves. Aunt A used all her wheat flour equally to bake 6 chocolate cakes. How much wheat flour did each cake need?
(1) 1.051 kg (2) 2.023 kg (3) 1.098 kg (4) 2.271 kg
55. In the given figure if AB = 5 cm, AH = 9 cm, MD = 5 cm and DE = 1 cm then find the shaded area in sq. cm.



- (1) 45 (2) 50 (3) 55 (4) 60
56. In the picture, the big triangle is equilateral and has area 9. The lines are parallel to the sides of the triangle and divide the sides into three equal parts. What is the area of the shaded part.



- (1) 1 (2) 4.5 (3) 6 (4) 7

57. Simplify : $\frac{6}{7} \times \frac{5}{9} \div \frac{15}{27}$

(1) $\frac{3}{7}$

(2) $\frac{9}{16}$

(3) $\frac{5}{8}$

(4) $\frac{6}{7}$

58. A worm climbing up a high wall went 12 m on one day but slipped back by 2 m 35 cm in the evening. How far up had the worm reached in 2 days.

(1) 9m 65 cm

(2) 19 m 30 cm

(3) 18 m 30 cm

(4) None of these

59. Robin has 9 packages of gum. There are 15 pieces in each package. How many pieces of gum does robin have?

(1) 150

(2) 135

(3) 155

(4) 140

60. What is the value of $7002 \div (7 + 0 + 0 + 2) - 7 \times 0 \times 0 \times 2$.

(1) 0

(2) 778

(3) 7002

(4) 1

SECTION-E : 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.

61. Some letters are given which are numbered 1, 2, 3, 4, 5, 6, 7 and 8. Find the combination of numbers from the options so that the letters arranged accordingly form a meaningful word.

I	B	P	L	S	O	S	E
1	2	3	4	5	6	7	8

(1) 3 ,5 ,1 ,4 ,6 ,7 ,2 ,8

(2) 5, 7 ,1 ,2 , 4 ,8 ,3 ,6

(3) 8 ,4 ,2 ,1 ,7 ,5 ,6 ,3

(4) 3, 6 ,5 ,7 , 1 ,2 ,4 ,8

62. Which letter will be 7th to the right of I in English Alphabet series ?

(1) L

(2) P

(3) Q

(4) R

63. A lady runs 12 km towards North. Then 6 km towards South and 8 km towards East. How far is she from her starting point and in which direction?

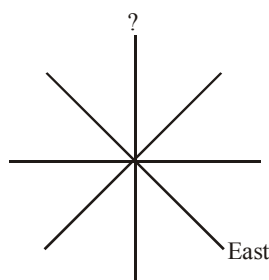
(1) North-East – 20 km

(2) North-East – 15 km

(3) North-West – 10 km

(4) North-East – 10 km

64. Find the direction which replaces '?' in the following figure?



(1) North

(2) North-West

(3) West

(4) South-West

65. In certain code the word PANIC is written as KZMRX, then the word OPERATION will be written as,

(1) NKVIZGRNM

(2) LKVIZGRLM

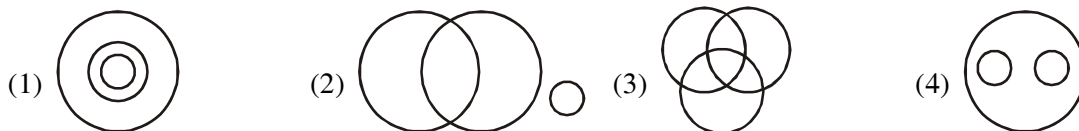
(3) NKWIZGRLM

(4) LKVGZHRM

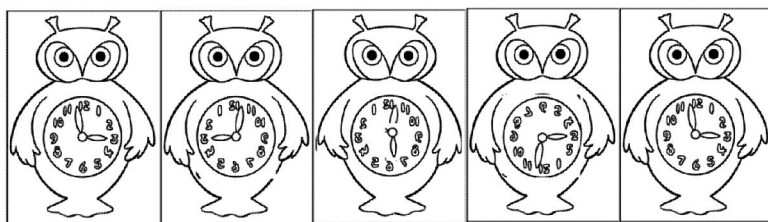
66. A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction. Which direction is he facing now?
 (1) South-East (2) North-West (3) West (4) South-West
67. If all the English Alphabets are serially numbered from A to Z, one of the option given below has a meaningful word hidden in it. Identify the option.
 (1) 5, 18, 5, 8, 1, 3, 5 (2) 20, 5, 1, 3, 8, 5 18
 (3) 5, 1, 3, 5, 20, 8, 18 (4) 18, 5, 3, 8, 1, 5, 20
68. If Gurukul is called School, School is called Education, Education is called Victory, Victory is called Success, Success is called Tallentex, Tallentex is called Allen, then which exam are you giving now?
 (1) Tallentex (2) Allen
 (3) Success (4) Victory

Directions (Q.69 & Q.70) : Six persons A, B, C, D, E and F are sitting in two rows, three in each. E is second to the left of D, A the neighbour of C, is sitting diagonally opposite to E. C is not at the end of any row. F is neighbour of D.

69. Who is facing F?
 (1) D (2) C (3) A (4) B
70. Which of the following lies in the same row?
 (1) BCA (2) ADB (3) EFC (4) DCA
71. Find the missing term in the following series.
 _ a a _ b a _ b b _ a b _ a a b
 (1) aaabb (2) babab (3) bbaab (4) aaaaa
72. In the following series, replace the question mark (?) with the suitable option.
 15, 30, 60, 120, 240, ?
 (1) 480 (2) 518 (3) 445 (4) 715
73. What number should come in place of question mark in given series.
 1, 2, 5, 12, 27, 58, ?
 (1) 119 (2) 120 (3) 121 (4) 122
74. Which of the following diagram indicates the best relation between Universe, Earth, India?



75. Find the Mirror Image of the figure (X) :



(X)

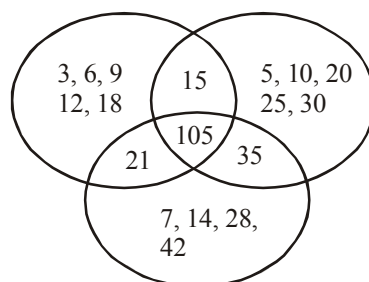
(1)

(2)

(3)

(4)

76. Which number present in all of the given Figures.



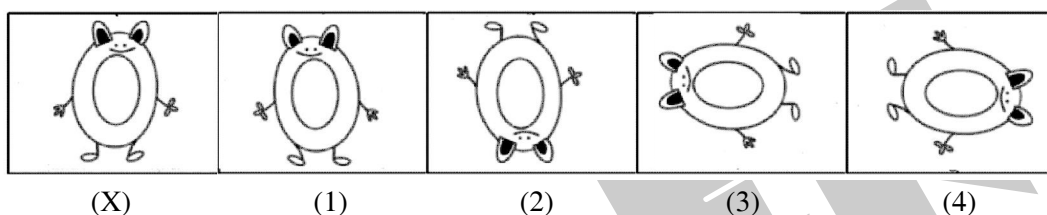
(1) 103

(2) 104

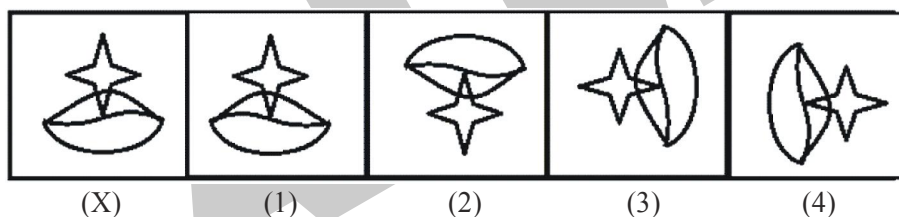
(3) 105

(4) 106

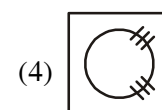
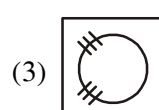
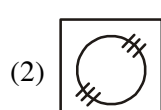
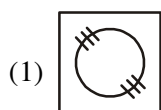
77. Find Water Image of figure (X) :



78. Choose the correct Water Image of the figure (X) from among the four alternatives (1), (2), (3) and (4) given along with it.



79. Which one of the following will be correct Mirror Image of given figure ?



80. If PWRUO is coded as 81639 and VTQUO as 24739, then how RTVOP can be coded?

(1) 67314

(2) 64298

(3) 59431

(4) 27543

ANSWER KEY

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