

CLASS : V**MATHEMATICS**

1. The shape of the front of a bird house roof is shown below.



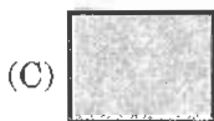
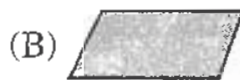
What is the name of the shape?

- (A) Square (B) Rhombus (C) Rectangle (D) Trapezium
2. In the pattern below, which number belongs in the box?

0, 5, 4, 9, 8, 13, 12, 17, 16,

- (A) 21 (B) 20 (C) 19 (D) 15
3. Vijay and Ajay are filling a fish tank with water. Vijay fills $\frac{1}{5}$ of the tank. Then Ajay fills $\frac{2}{5}$ of the tank. How much of the tank have they filled in all?
- (A) $\frac{3}{25}$ (B) $\frac{3}{10}$ (C) $\frac{3}{5}$ (D) $\frac{2}{5}$
4. Ms. Swetha used 60% of the gas in her car's tank while driving over the weekend. Which number represents how much of the gas she used?
- (A) 0.6 (B) $\frac{1}{6}$ (C) 0.06 (D) $\frac{1}{60}$
5. Divya learned the population of her street is 5,342. What is 5,342 rounded to the nearest hundred?
- (A) 5,000 (B) 5,300
(C) 5,400 (D) 5,500
6. What is the highest common factor of 9 and 36?
- (A) 36 (B) 18 (C) 9 (D) 3

7. Which shape has only one pair of parallel sides?



8. The table below shows the populations of four cities in India.

City	Population
Mumbai	75,17,973
Kolkata	95,38,544
Hyderabad	33,90,635
Chennai	43,53,893

What is the value of the digit 9 in the smallest population listed in the table?

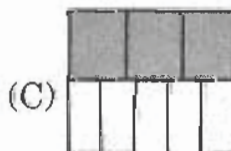
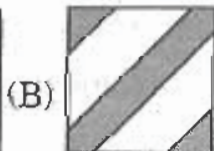
- (A) Ninety (B) Nine hundred
(C) Ninety thousand (D) Ninety lakhs

9. Simplify the expression below.

$$3 + 7 \times (5 + 1) \div 3 - 2$$

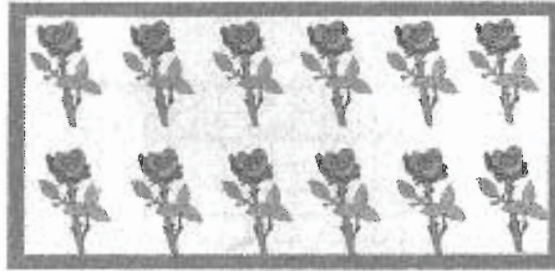
- (A) 11 (B) 13 (C) 15 (D) 18

10. Which of the following squares has $\frac{3}{5}$ shaded?



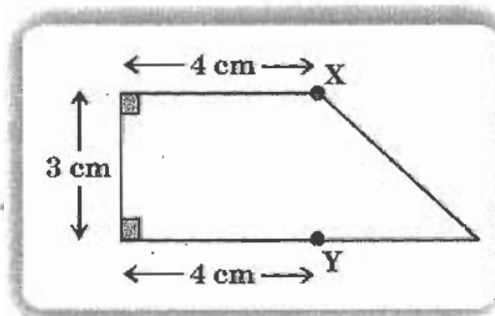
(D) All the given

11. Teja picked 6 of the flowers shown below.



He correctly wrote two fractions to represent the part of the group of flowers he picked. Which two fractions could Teja have written?

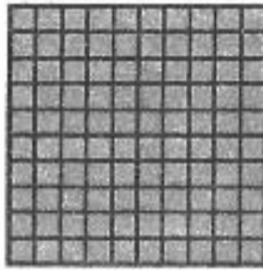
- (A) $\frac{1}{2}$ and $\frac{6}{12}$ (B) $\frac{6}{12}$ and $\frac{1}{6}$
(C) $\frac{1}{2}$ and $\frac{4}{6}$ (D) $\frac{6}{12}$ and $\frac{2}{3}$
12. Rohit will cut the paper shape shown below in a straight line from point X to point Y.



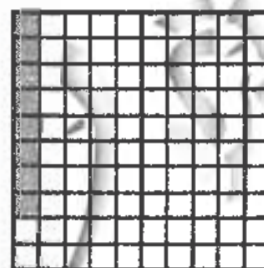
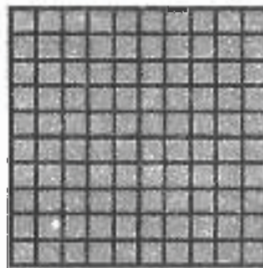
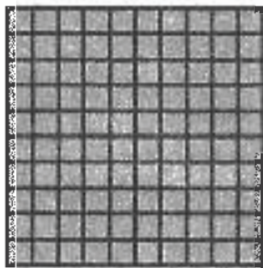
What two shapes will Rohit have after he cuts the paper?

- (A) A square and a triangle
(B) A square and a trapezium
(C) A rectangle and a triangle
(D) A rectangle and a parallelogram

13. The figure below is shaded to represent the number 1.



What number is represented by the model below?



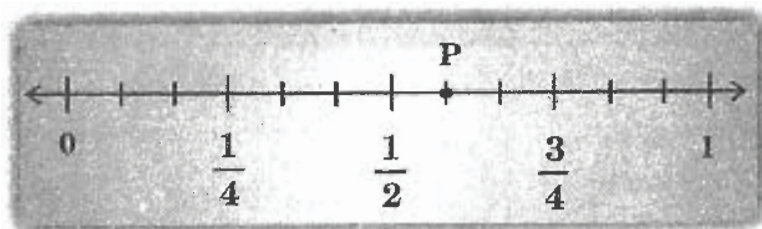
- (A) 8.20 (B) 2.08
(C) 0.28 (D) 2.80
14. The table below shows the number of points that each player on a basketball team scored in his last game.

Player	Number of points scored
Akhil	9
Dev	12
Nithin	15
Krishna	5
Shiva	4

What percent of the total number of points did Akhil score?

- (A) 9% (B) 20%
(C) 25% (D) 45%

15. Which of the following numbers best represents the location of point P on the number line below?



- (A) $\frac{1}{3}$ (B) $\frac{2}{3}$ (C) $\frac{7}{9}$ (D) $\frac{7}{12}$
16. The table shows the distance, in centimetres, that a balloon travelled along a string during 5 trials in a science experiment.

Trial	Distance (in centimetres)
1	339
2	339
3	345
4	347
5	330

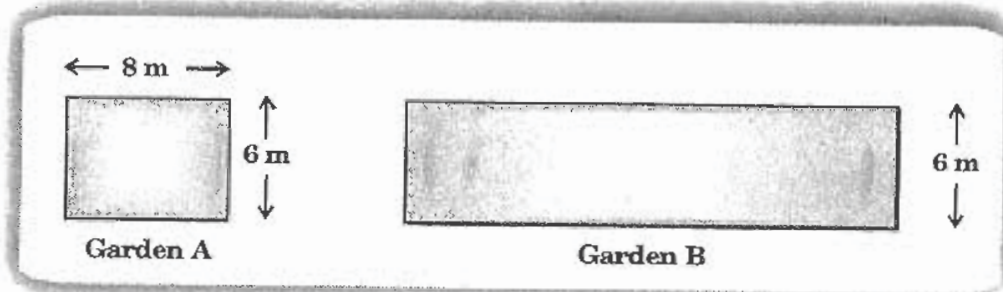
What is the average distance, in centimetres, the balloon travelled?

- (A) 347 (B) 345
(C) 340 (D) 339
17. Which pair of operations will make the equation below true when inserted into the blank spaces in the order shown?

$$2\frac{3}{10} \quad \underline{\hspace{1cm}} \quad 1.5 \quad \underline{\hspace{1cm}} \quad 2 = 1.8$$

- (A) $-$ and $+$ (B) \times and $+$ (C) $+$ and $-$ (D) \times and $-$

18. The diagram below shows two rectangular garden areas in the schoolyard. The length of Garden B is 3 times the length of Garden A.



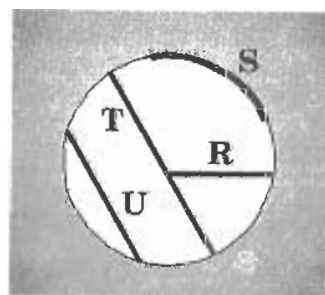
What is the perimeter, in metres, of Garden B?

- (A) 60 (B) 48 (C) 28 (D) 14
19. Chintu records the number of crayons in his art supply box by colour. The results are shown in the table below.

Colour	Number of crayons
Blue	2
Red	3
Yellow	1
Green	4

What is the ratio of the number of red crayons compared to the number of yellow crayons?

- (A) 1 : 4 (B) 3 : 1 (C) 1 : 10 (D) 3 : 10
20. The circle below has four labelled parts.



Which part of the circle does segment U represent?

- (A) Arc (B) Diameter
(C) Chord (D) Radius

21. $41^{\circ}\text{F} = \text{_____}^{\circ}\text{C}$

- (A) 5 (B) 7 (C) 8 (D) 9

22. The prime factors of 88 is:

- (A) $2 \times 2 \times 11$ (B) 2×44 (C) $2 \times 2 \times 22$ (D) $2 \times 2 \times 2 \times 11$

23. Area of a square is 144 sq m. Its side measures:

- (A) 13 m (B) 14 m (C) 12 m (D) 11 m

24. Normal human body temperature is:

- (A) 100°F (B) 98.6°F (C) 37°F (D) 99.8°F

25. The difference between the smallest 6-digit number and the greatest 4-digit number is:

- (A) 9,00,001 (B) 90,001 (C) 90,000 (D) 1

26. LCM of 7 and 13 is:

- (A) 7 (B) 13 (C) $7 + 13$ (D) 7×13

27. $123123 \div 123 = 100 + \text{_____}$

- (A) 1 (B) 91 (C) 901 (D) 11

28. A boy runs at a speed of 8 m/sec. How long does he take to cover a distance of 1 km?

- (A) 100 sec (B) 125 sec (C) 12.5 hr (D) None of these

29. In what time will Rs. 72 become Rs. 81 at $6\frac{1}{4}\%$ per annum simple interest?

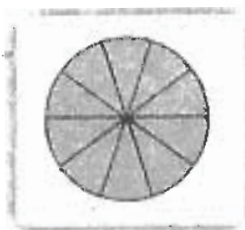
- (A) $1\frac{1}{2}$ years (B) 2 years (C) $2\frac{1}{2}$ years (D) 3 years

30. Which of the following are complementary angles?

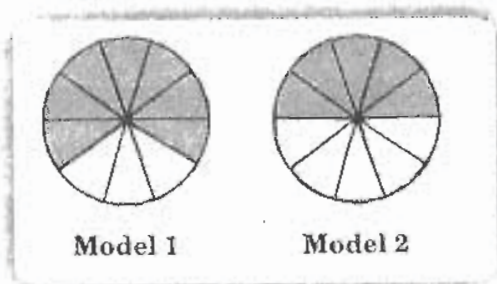
- (A) 90° and 90° (B) 45° and 40°
(C) 65° and 30° (D) 70° and 20°

31. If $6 \times 83 = 498$, then $0.6 \times 8.3 =$ _____
(A) 4.98 (B) 49.8 (C) 0.498 (D) 498
32. Which of the following is divisible by 5?
(A) 25 (B) 1230 (C) 12345 (D) All of these
33. The number which is neither prime nor composite is:
(A) 1 (B) 2 (C) 5 (D) None of these
34. The value of $1 + 2 - 3 \times 4 \div 5$ is:
(A) 0 (B) 1 (C) $\frac{3}{5}$ (D) None of these
35. Instrument used to measure the temperature is:
(A) protractor (B) stethoscope (C) thermometer (D) none of these
36. 10 crores = _____ million
(A) 1 (B) 10 (C) 100 (D) 1000
37. The place value of "2" in 17.9852 is:
(A) 2000 (B) 2 (C) $\frac{1}{2000}$ (D) $\frac{1}{5000}$
38. Two consecutive prime numbers whose difference is 2 are called :
(A) Twin primes (B) Co-primes
(C) Even numbers (D) Composite numbers
39. The fraction equivalent to $\frac{3}{4}$ is:
(A) $\frac{9}{12}$ (B) $\frac{18}{24}$ (C) $\frac{27}{36}$ (D) All of these
40. $13.07 \times 1000 =$ _____
(A) 1307 (B) 0.1307 (C) 13070 (D) 1.307
41. The salary of a man has increased by 20%. If he now gets Rs. 3000, his salary before the increase was:
(A) Rs. 2000 (B) Rs. 2300 (C) Rs. 2400 (D) Rs. 2500

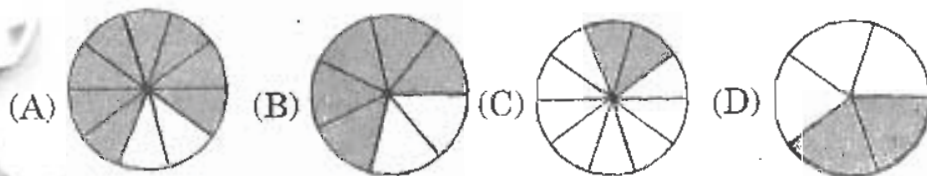
42. The radius of a circle whose diameter 1 m is:
(A) 2 m (B) 0.5 cm (C) 50 cm (D) 1 m
43. A rope of 12.6 m length is cut into 2 pieces. One piece is 3 times as long as the other piece. Find the length, in metres, of the shorter piece.
(A) 6.3 (B) 3.15 (C) 4.2 (D) 2.1
44. Which of the following is correct?
(A) $\frac{9}{10} = 90\%$ (B) $\frac{1}{2} = 5\%$ (C) $\frac{3}{4} = 65\%$ (D) $\frac{4}{5} = 8\%$
45. This model is shaded to show one whole.



The two models below are each shaded to show a fraction.



One fraction is subtracted from the other. Which model is shaded to show the difference?



CLASS : V

GENERAL SCIENCE

46. Which of these characteristics might help a plant species survive in an area with limited sunlight?

- (A) Bright flowers (B) Large leaves
(C) Short stems (D) Thick cuticle

47. The four animals shown below are mammals. Which of them lay eggs?



48. Which of the following is the correct sequence in the formation of rain?

- (A) Water → vapour → cloud → rain
(B) Water → cloud → vapour → rain
(C) Vapour → rain → cloud
(D) Vapour → water → rain

49. Which of the following cannot be recycled?

- (A) Bananas (B) Plastic tins (C) Glass bottles (D) Newspapers

50. Table below shows the parts of a germinating seedling and their functions?

Parts of a seedling	Function
P	Supplies food
Q	Forms the root
R	Forms leaves and stem

Which of the following represents P, Q and R?

	P	Q	R
(A)	Radicle	Cotyledon	Plumule
(B)	Radicle	Plumule	Cotyledon
(C)	Cotyledon	Radicle	Plumule
(D)	Cotyledon	Plumule	Radicle

51. Which of the following statements is true?

- (A) Toads are reptiles (B) Jellyfish is a vertebrate
(C) Penguin is a mammal (D) Seahorse is a fish

52. Some animals living in water have streamlined body shapes. This helps to:

- (A) keep the body warm (B) reduce loss of water
(C) reduce resistance in water (D) decrease body weight

53.



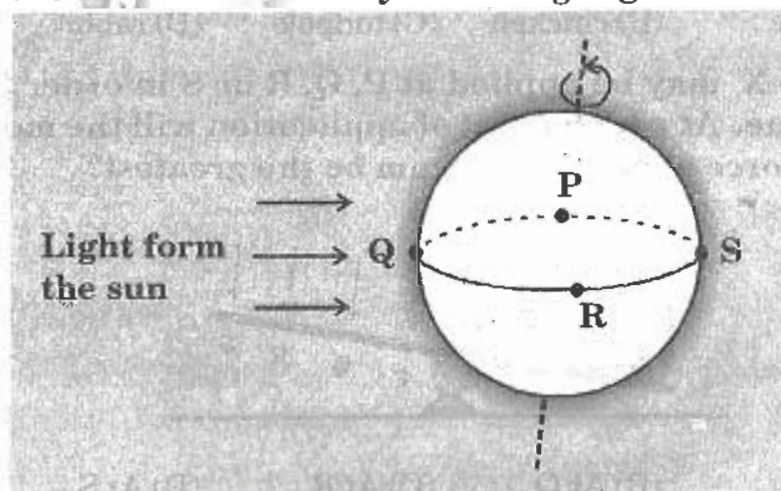
This seed is best dispersed by:

- (A) water (B) birds (C) insects (D) wind

54. Which of the following groups of animals have scales on their body surfaces?

- (A) Crocodile, snake and crab (B) Crocodile, snail and snake
(C) Pangolin, crocodile and snail (D) Pangolin, crocodile and snake

55. Diagram given below shows four cities P, Q, R and S on the Earth. Which city is having night-time?



- (A) P (B) Q (C) R (D) S

56. Which of the following is a benefit that many flowering plants get from animals?

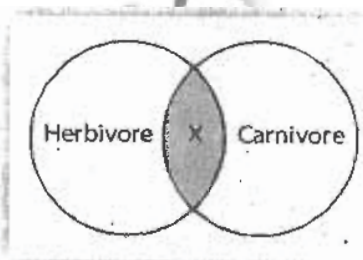
- (A) Shelter from direct sunlight
- (B) Seeds carried to new places
- (C) Oxygen to use in photosynthesis
- (D) Moisture to prevent wilting

57. When an ice cube melts, changes in _____ occur.

- I State
- II Volume
- III Substance
- IV Mass

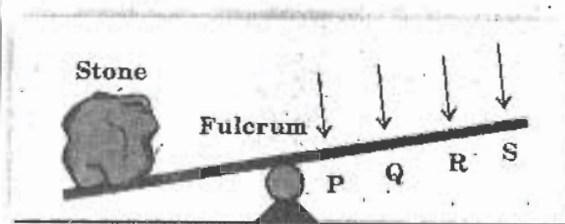
- (A) I and II only
- (B) I and III only
- (C) II and III only
- (D) III and IV only

58. Look at the Venn diagram. X is most probably a/an:



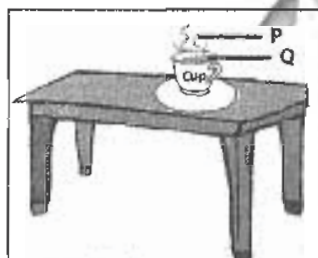
- (A) eagle
- (B) chicken
- (C) tadpole
- (D) rabbit

59. A force X may be applied at P, Q, R or S in order to lift the stone. At which point of application will the moment of the force about the fulcrum be the greatest?



- (A) At P
- (B) At Q
- (C) At R
- (D) At S

60. Which one of the following joints permit movement only in one plane at 180° ?
- (A) Ball and socket joint (B) Gliding joint
(C) Hinge joint (D) Pivot joint
61. The muscular energy required by our body is given to us in the form of chemical energy by:
- (A) air (B) water (C) oxygen (D) food
62. Lucky left a cup of hot coffee on his table. He noticed something rising out of the surface of the coffee. Which of the following describes correctly how the particles are arranged at P and Q?



	Particles at P	Particles at Q
(A)	not so closely packed	far apart
(B)	far apart	closely packed
(C)	not so closely packed	closely packed
(D)	far apart	not so closely packed

63.

X - temperature at which water changes to vapour
Y - temperature at which water changes to a solid

Based on the information above, X and Y are:

- (A) X – Freezing point, Y – Boiling point
(B) X – Boiling point, Y – Freezing point
(C) X – Melting point, Y – Freezing point
(D) X – Freezing point, Y – Boiling Point

64. P feeds on Q, R and S. Q and S only feed on R. R is one of the earth's natural resources. Which is most probably true of the following?
- (A) P is an omnivore (B) R is a herbivore
(C) S is an omnivore (D) Q is a carnivore
65. Which of the following animals is supported by an endoskeleton?
- (A) A crab (B) A deer (C) A millipede (D) An earthworm
66. Water is known as the universal solvent because:
- (A) it has many uses
(B) it can remove all kinds of dirt
(C) it can dissolve many substances
(D) it acts as a medium for chemical reactions in the body
- 67.
- Moist skin
 - Lives both on land and in water
 - Breathe through gills when young

Which of the following could be the group of animals described above?

- (A) Mammals (B) Fish (C) Amphibians (D) Aves
68. Which of the following mixtures will be the most difficult to separate?
- (A) Iron fillings + sand (B) Sand + water
(C) Saw dust + stones (D) Nitrogen + hydrogen
69. Which one of the following statements about the animal shown below is correct?
- (A) It camouflages itself from its predators.
(B) It's strong tail helps it to balance during hopping
(C) It has webbed feet for padding in the water
(D) It can survive for long periods without food and water



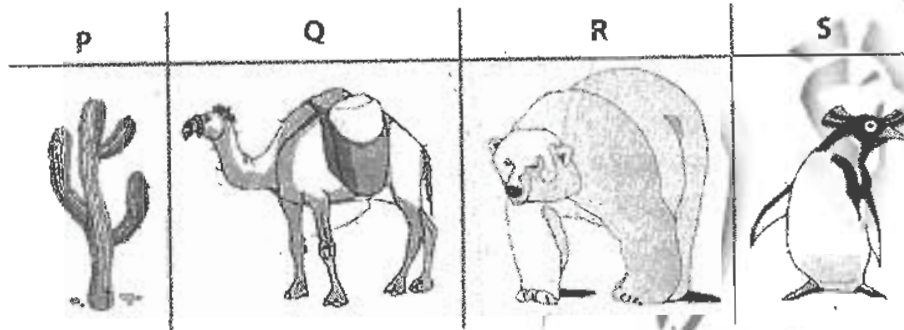
70. Which of these illustrates a predator-prey relationship?

- (A) An eagle catching a fish (B) A flea feeding on a dog
(C) A horse eating grass (D) A zebra feeding on trees

71. Which of these activities does NOT need force?

- (A) Swimming (B) Talking (C) Cycling (D) Painting

72. Which of the following organisms is adapted for survival in cold regions?

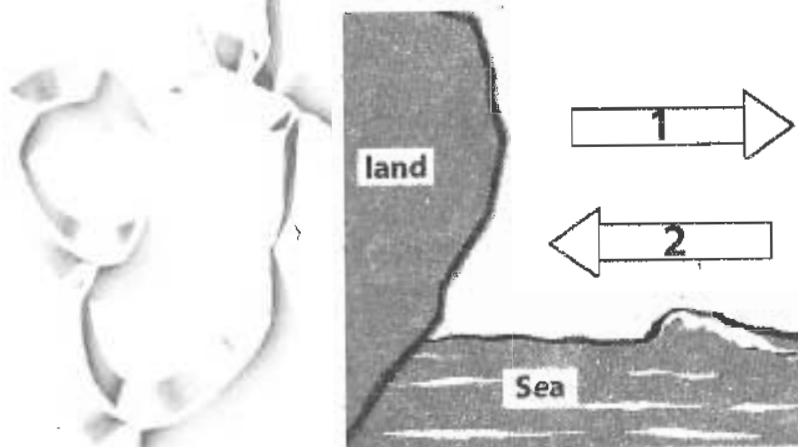


- (A) P and R (B) P, Q and S (C) R and S (D) P, Q, R and S

73. Vaccination:

- (A) develops resistance against a disease
(B) can control every disease
(C) kills all the disease causing organisms in the area
(D) involves the use of antibodies

74. Observe the diagram given below.



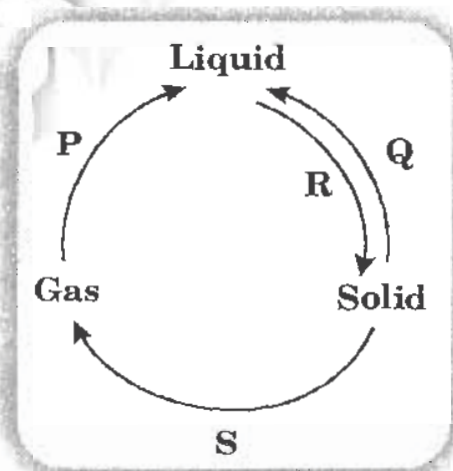
Arrow 1 represents:

- (A) land breeze (B) sea breeze
(C) movement of water (D) none of these

75. Sudhakar's bicycle was making a lot of squeaking noise because some parts were rubbing against each other. Which one of the following should he use to stop the squeaking noise?
- (A) Water (B) Oil (C) Sand (D) Powder
76. Observe the figure given below. The part labelled 'S' is a:

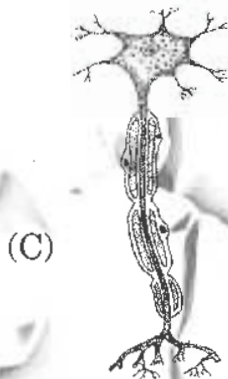


- (A) fixed joint (B) ball and socket joint
(C) hinge joint (D) pivotal joint
77. Four stages P, Q, R, S are shown in the diagram below. During which stage does water vapour change to dew?



- (A) P (B) Q (C) R (D) S

78. Which of the following plants reproduce by spores?
- (A) Coconut (B) Mushroom
(C) Ginger (D) All of these
79. If an object remains stationary even when force is applied then:
- (A) work is said to be done
(B) work is not done
(C) work may have been done
(D) none of the above
80. Learning, abstract thinking, memory and behaviour of a person are governed by which of the following organs?

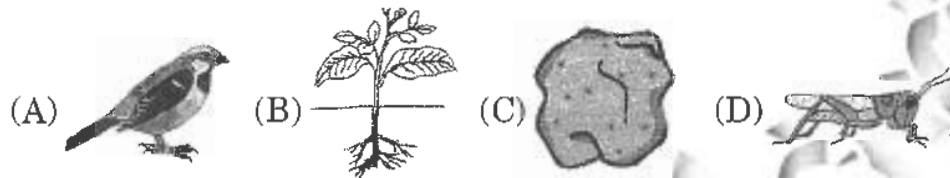
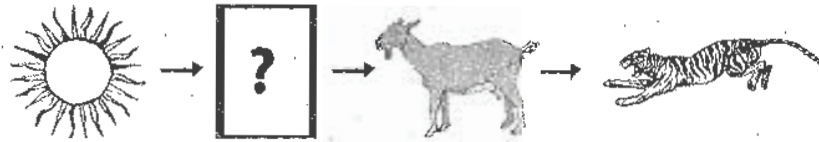


(D) All of these

81. Which of the following causes influenza?

(A) Virus (B) Bacteria
(C) Algae (D) Fungi

82. Which of the following should come in the empty box in the food chain given below?



83. Some bacteria benefit mammals by helping in:
(A) growth (B) defense (C) digestion (D) respiration
84. The figure shows a leaf of a plant.



What process is shown above?

- (A) Respiration (B) Reproduction (C) Defecation (D) Nutrition
85. Which of the following is NOT a form of energy?

- (A) Gravity (B) Light
(C) Sound (D) Electricity

86. Paper bags are preferred to plastic ones because:

- (A) plastic bags are lighter
(B) paper bags are stronger
(C) plastic bags are not biodegradable
(D) paper bags are not biodegradable

87. The object given below is mainly used to lift objects above the ground. This opposes:
- (A) frictional force (B) gravitational force
(C) muscular force (D) all of these
88. The tilt of the earth's axis does NOT affect the variations in season at:
- (A) the equator (B) the north pole
(C) the south pole (D) none of these
89. Table given below shows some ways by which plants reproduce.

The way by which plants reproduce	Examples
P	Mango
Q	Potato
R	Fern

- (A) P – seed, Q – aerial stem, R – spores
(B) P – seed, Q – underground stem, R – spores
(C) P – suckers Q – Leaves, R – seeds
(D) P – seed, Q – spores, R – leaves
90. Which of the following demonstrate friction at work?

P	Ice tongs holding a block of ice
Q	A hand holding a piece of paper
R	A man slipping on a wet floor
S	A ball rolling

- (A) R only (B) Q and S only
(C) P and R only (D) P, Q and S only

CLASS : V**GENERAL QUESTIONS**

91. Which number should come next in the series given below?

5, 9, 14, 20, ?

- (A) 26 (B) 27 (C) 32 (D) 28

92. Which is the most prestigious Lawn Tennis Championship?

- (A) Wimbledon (B) U.S. Open (C) Davis Cup (D) French Open

93. Which letter should come in the blank between the letters given below to form a meaningful word?

F L _ A T

- (A) U (B) N (C) O (D) C

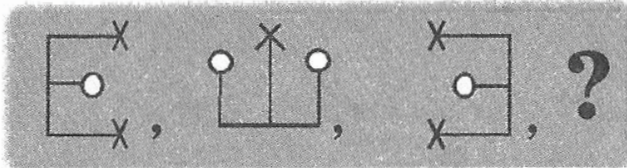
94. In whose memory is National Science Day observed?

- (A) J.C. Bose (B) Homi. J. Bhabha
(C) C.V. Raman (D) Vikram Sarabhai

95. Which is the capital of the Chhattisgarh?

- (A) Bilaspur (B) Bhilai (C) Bhopal (D) Raipur

96. Which figure should come next in the sequence given below?



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

97. Who is the founder of the organisation 'Red Cross'?

- (A) Jean Henri Dunant (B) Janet Gayner
(C) Gustave Moynier (D) Alfred Nobel

98. Mother Teresa, Rabindranath Tagore and Amartya Sen together form a group of:

- (A) writers (B) Nobel prize winners
(C) novelists (D) scientists

99. PALE is to LEAP as POSH is to:

- (A) HSOP (B) POHI (C) SHOP (D) SOHP

100. How many medals did India win in the Beijing 2008 Olympics?

- (A) 5 (B) 4 (C) 3 (D) 1