

- The number 1001 read from left to right and from right to left is the same. Which number from the numbers below does not have this property?  
(A) 1991      (B) 2112      (C) 2323      (D) 4334
- Mr. and Mrs. Kushal have three daughters. Each of them has two brothers. How many children does the Kushal family have?  
(A) 11      (B) 9      (C) 7      (D) 5
- The number of zeroes that come after 1 in 10 crores is:  
(A) 9      (B) 8      (C) 7      (D) 6
- The next day after his birthday John said: "The day after tomorrow will be Thursday." On what day of the week did John have his birthday?  
(A) On Monday      (B) On Tuesday  
(C) On Wednesday      (D) On Friday
- A cyclist went up the hill with a speed of 12 km/hr and came down with a speed of 20 km/hr. The ride up the hill took him 16 minutes longer than the ride down. How many minutes did the cyclist take to come down the hill?  
(A) 40      (B) 32      (C) 24      (D) 16
- Which number is formed when the number 76823 is rounded off to the nearest thousands?  
(A) 75000      (B) 76000  
(C) 77000      (D) 78000
- There is an advertisement in a sport store that gives the following information :

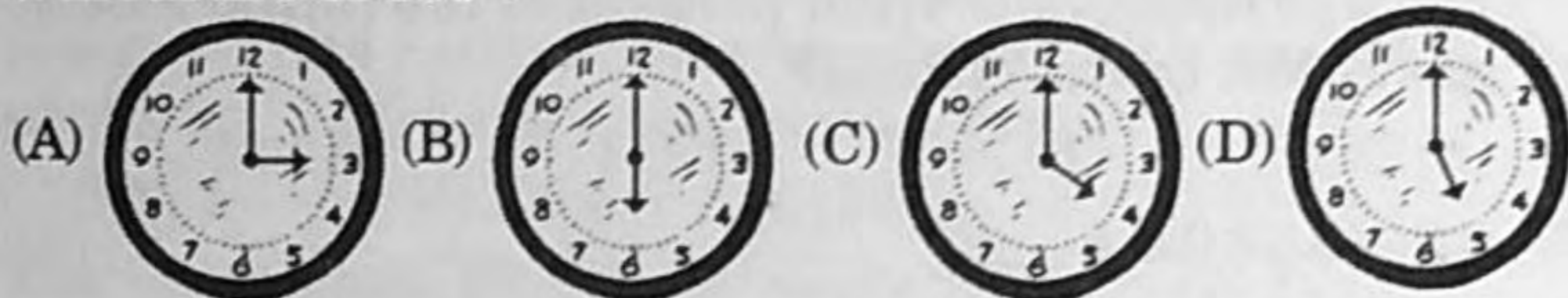
$$\begin{array}{c}
 \text{Soccer Ball} + \text{Racket} = \text{Rs.90}
 \end{array}$$

$$\begin{array}{c}
 3 \text{ Soccer Balls} + 2 \text{ Rackets} = \text{Rs.240}
 \end{array}$$

What will be the cost of one football?

- (A) Rs. 130      (B) Rs. 60      (C) Rs. 50      (D) Rs. 40

8. On which picture the hands of a clock form an angle with a measure of  $150^\circ$ ?



9. The daily consumption of milk of a family is  $3\frac{1}{4}$  litres.

The quantity of milk consumed by the family in the month of February 2007 will be :

- (A) 91 litres      (B)  $97\frac{1}{2}$  litres  
 (C)  $100\frac{1}{2}$  litres      (D)  $94\frac{1}{4}$  litres

10. If  $3 \times 2006 = 2005 + 2007 + x$ , then "x" is equal to :

- (A) 2004      (B) 2005      (C) 2006      (D) 2007

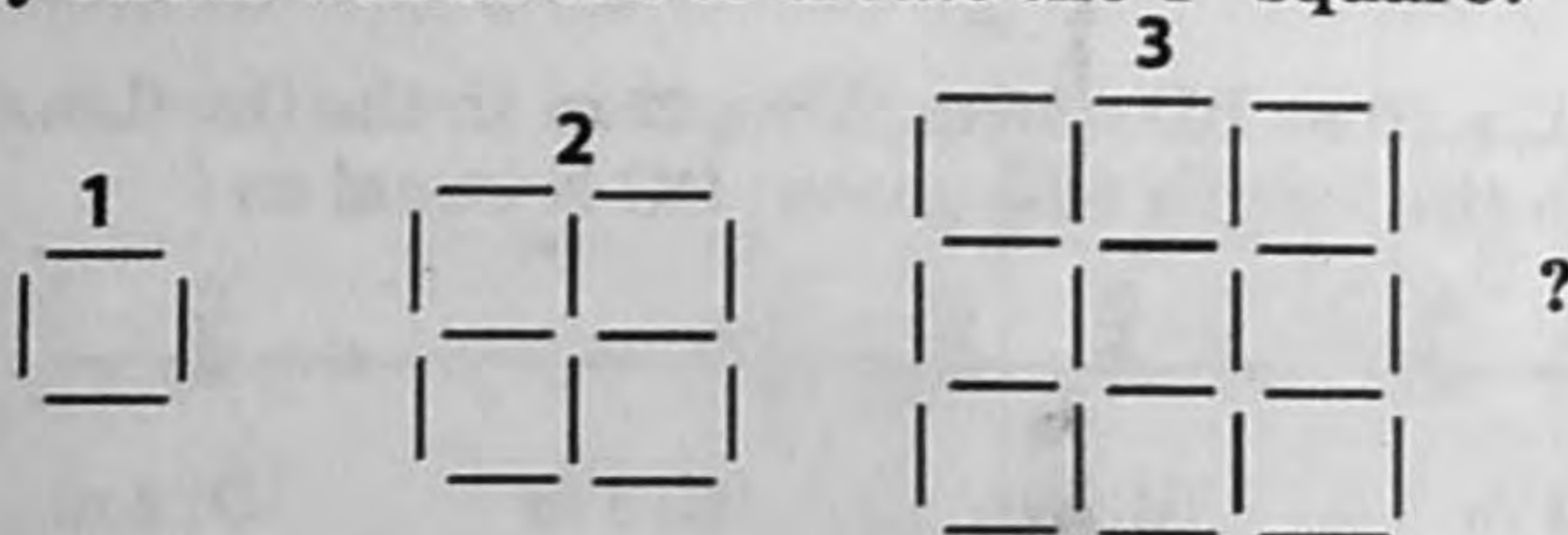
11. A car is driving at a constant speed of 25 metres per second. How many kilometres will it travel in one hour?

- (A) 100      (B) 90      (C) 80      (D) 75

12. The smallest possible decimal fraction upto three decimal places is :

- (A) 0.101      (B) 0.111      (C) 0.100      (D) 0.001

13. Raju is making different squares with sticks of equal length. He numbers them with numbers 1, 2, 3, 4 etc. How many sticks will he use to create the 4<sup>th</sup> square?



- (A) 120      (B) 60      (C) 40      (D) 30

14. A cistern delivered gas to three different gas stations. At the first one 30% of the gas was taken out, at the second gas station 40% of the remaining gas in the cistern was taken out, and at the third station half of the remaining gas was taken out. What percent of the initial amount of gas is left in the cistern?

- (A) 21 (B) 15 (C) 14 (D) 12

15.  $0.9 \div 0.3 \times 0.3 =$  \_\_\_\_\_

- (A) 0.1 (B) 0.9 (C) 0.09 (D) 1

16. Which of the following is greatest?

- (A)  $2 + 0 + 0 + 7$  (B)  $2 \times 0 \times 0 \times 7$   
(C)  $(2+0) \times (0+7)$  (D)  $(2 \times 0) + (0 \times 7)$

17. How many decimals are there on the number line between the numbers 2.09 and 15.3?

- (A) 13 (B) 15 (C) 17 (D) Infinitely many

18. Which of the following statements is false?

- (A) If we join any two points on a circle we get the diameter of the circle  
(B) A semicircle is an arc  
(C) The length of a circle is called its circumference  
(D) None of these

19. The value of the expression

$$\frac{2007 + 2007 + 2007 + 2007 + 2007}{2007 + 2007} \text{ is equal to :}$$

- (A) 2007 (B)  $\frac{5}{2}$  (C)  $\frac{1}{7}$  (D) 7

20. If  $AC = 10$  m,  $BD = 15$  m,  $AD = 22$  m in the figure below, then the length of segment  $BC$  is equal to :

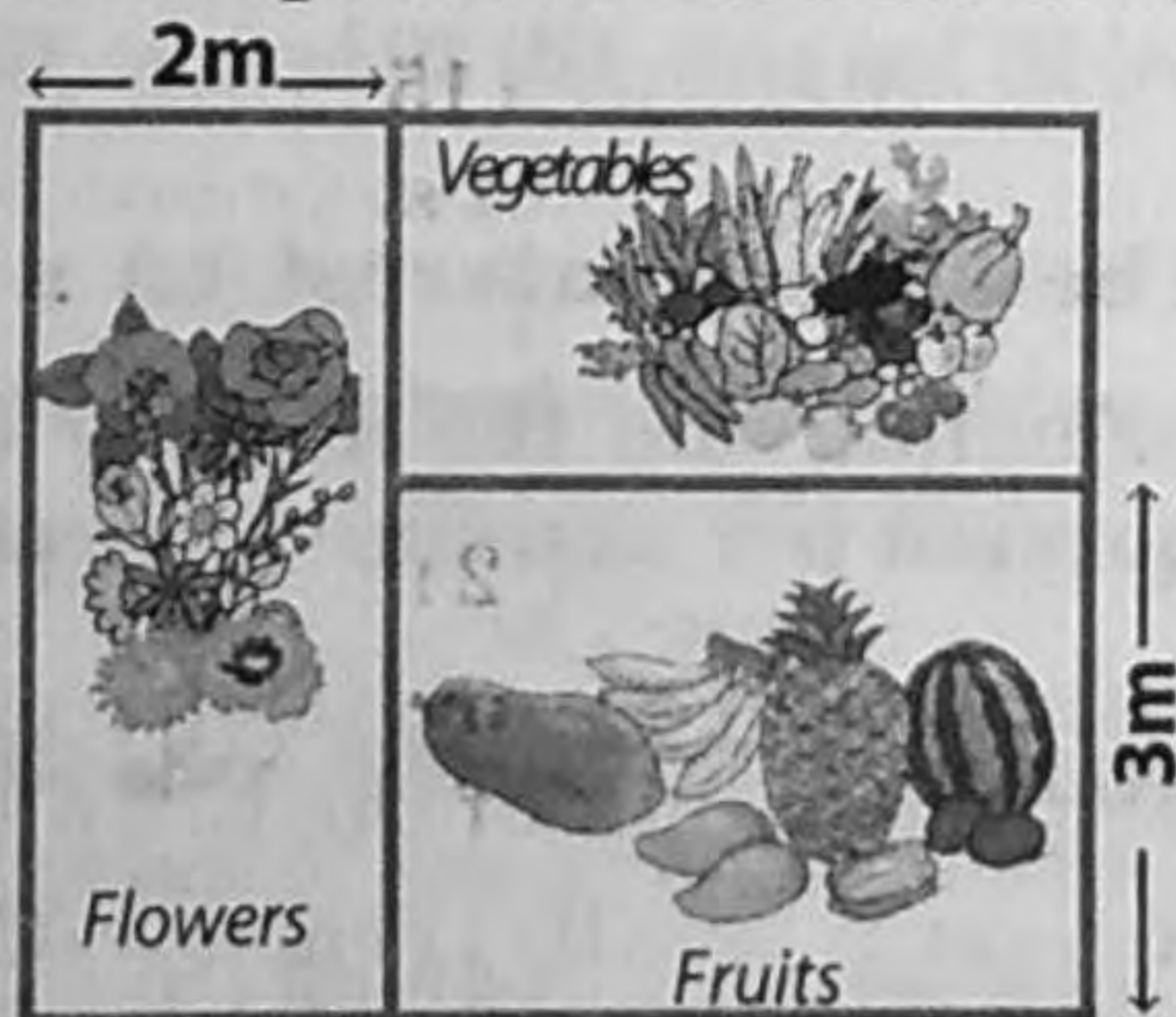


- (A) 1 m (B) 2 m (C) 3 m (D) 4 m

21. If 4 cm and 7 cm are the lengths of two sides of a triangle, then the length of the third side would probably be :

- (A) 6 cm (B) 11 cm (C) 12 cm (D) 3 cm

22. How much is  $1000 - 100 + 10 - 1$  ?  
 (A) 111 (B) 900 (C) 909 (D) 990
23. The weight of 3 apples and 2 oranges is 255 g. The weight of 2 apples and 3 oranges is 285 g. If each apple weighs the same and each orange weighs the same, what is the combined weight of 1 apple and 1 orange?  
 (A) 110 g (B) 108 g (C) 105 g (D) 104 g
24. The instrument used to measure temperature is :  
 (A) protractor (B) stethoscope (C) thermometer (D) none of these
25.  $2007 \times 100 + 2007 =$  \_\_\_\_\_  
 (A) 2007002007 (B) 20072007 (C) 20072006 (D) 202707
26. On a shelf, there are 24 balls in three colours : white, red and brown.  $\frac{1}{8}$  of them are white and  $\frac{2}{3}$  of the rest are red. How many of them are brown?  
 (A) 8 (B) 7 (C) 6 (D) 5
27. Area of a rectangle is 120 sq.m and the breadth is 5 m. The length of the rectangle will be :  
 (A) 28 m (B) 26 m (C) 24 m (D) 204 m
28. Krishna picked a number and multiplied it by 3. Which number CANNOT be the result of this multiplication?  
 (A) 987 (B) 444 (C) 204 (D) 103
29. A rectangular garden with an area of  $30 \text{ m}^2$  was divided into three rectangular sections of flowers, vegetables and fruits as shown in the figure. What is the area of the vegetable section, if the flower part has an area of  $10 \text{ m}^2$ ?



- (A)  $8 \text{ m}^2$   
 (B)  $6 \text{ m}^2$   
 (C)  $4 \text{ m}^2$   
 (D)  $12 \text{ m}^2$

30. A cuboid measures  $36\text{ m} \times 24\text{ m} \times 18\text{ m}$ . How many cubes of edge  $6\text{ m}$  can be cut from the cuboid?  
(A) 144 (B) 72 (C) 36 (D) 18
31. Madhu usually walks from home to the beach, and returns on an elephant which takes him 40 minutes altogether. One day he travelled on the elephant from home to the beach and back, which took him 32 minutes. How much time would he need to travel the same distance on foot?  
(A) 42 minutes (B) 46 minutes  
(C) 48 minutes (D) 50 minutes
32. How many two digit numbers are there, which can be expressed only by using different odd digits?  
(A) 99 (B) 50 (C) 30 (D) 20
33. The decimal form of  $8\%$  is :  
(A) 0.8 (B) 8.0 (C) 0.008 (D) 0.08
34. There are five containers in a treasure chest, each containing three boxes and in each box there are 10 gold coins. The treasure chest, the containers and the boxes are all locked. How many locks do you need to open to get 50 coins?  
(A) 9 (B) 8 (C) 7 (D) 6
35. A half of one-one hundredth is :  
(A) 0.005 (B) 0.002 (C) 0.05 (D) 0.02
36. The average of 0.3, 0.03 and 0.003 is :  
(A) 0.3 (B) 0.1 (C) 0.111 (D) 0.333
37. A cycle travels at a speed of  $45\text{ km/hr}$ . How far will it travel in 36 minutes?  
(A) 27 km (B) 20 km (C) 36 km (D) 45 km
38. The simple interest on a sum of money is  $\frac{1}{9}$  of the principal and the number of years is equal to the rate percent per annum. The rate % per annum is :  
(A) 10% (B) 3% (C)  $\frac{1}{3}\%$  (D)  $3\frac{1}{3}\%$

39. Who among the following is right?

*Gopal* : "The largest number possible has 6 digits".

*Bhushan* : "The largest number possible has 1000 digits".

*Prashanth* : "The largest number possible can be only written with the 9 digits."

*Guru* : "The largest number possible cannot be written".

*Kumar* : "The largest number possible has '0' as the last digit."

(A) Gopal (B) Bhushan (C) Kumar (D) Guru

40. There are 5 Mondays in the month of March in a year. Which day of the week below could not appear in this month also five times?

(A) Thursday (B) Wednesday  
(C) Sunday (D) Saturday

41. Which set of signs comprising of + and - needs to be used to make the expression given below true?

$$4 \square 3 \square 2 \square 1 = 8$$

(A) +, -, + (B) -, +, - (C) +, +, - (D) -, +, +

42. Hema fills the square table shown here with numbers in such a way that the sum of the numbers in each column, each row and each diagonal is 15. What number should she put in place of "?" ?

(A) 9  
(B) 6  
(C) 3  
(D) 1

8	○	?
○	5	7
4	○	○

43. Choose the pair of complementary angles from the following.

(A)  $30^\circ$ ,  $150^\circ$  (B)  $65^\circ$ ,  $65^\circ$  (C)  $76^\circ$ ,  $14^\circ$  (D)  $90^\circ$ ,  $45^\circ$

44. A triangle with all three sides equal is called a/an :

(A) isosceles triangle (B) equilateral triangle  
(C) scalene triangle (D) none of these

45. The cost price of an article is Rs. 620 and 20% profit is made on it. The selling price of the article will be :

(A) Rs. 744 (B) Rs. 662 (C) Rs. 640 (D) Rs. 600

46. Study the two statements given here.

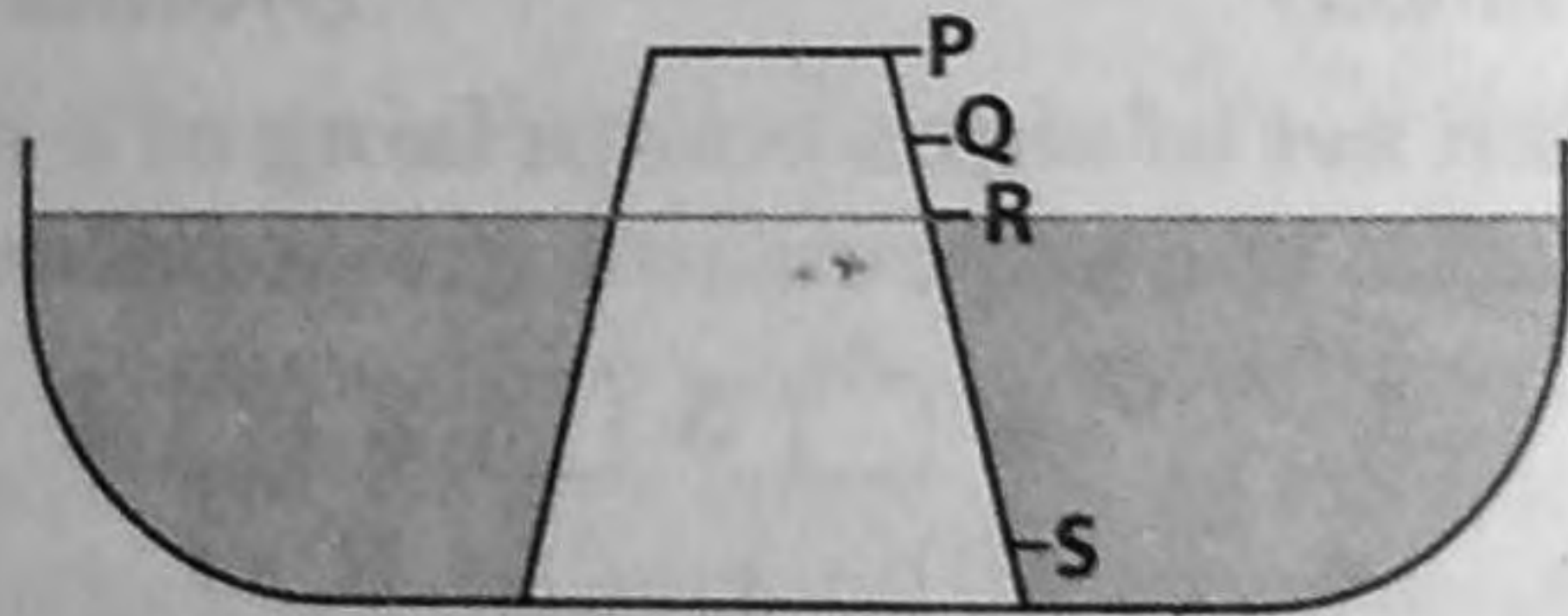
- i. In a night the shape of the Moon does not change much.
- ii. The Moon moves from east to west in the sky.

Which of the following is responsible for these?

- (A) The rotation of Moon
- (B) The rotation of Earth
- (C) The tilt of the earth's axis
- (D) The revolution of Moon

47. An empty inverted transparent glass is pushed down into a bowl of water as shown in the figure. Upto which level would water rise in the glass?

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



48. Different types of screws and nails of equal length are shown in the choices given below. Which of them will be the easiest to drive into a wooden block?



49. The first link in a food chain are green plants because they:

- (A) are more in number
- (B) can prepare their own food
- (C) are eaten by all the animals
- (D) cannot move from one place to another

50. Which of the four kinds of fish shown below is most likely to be the fastest swimmer?

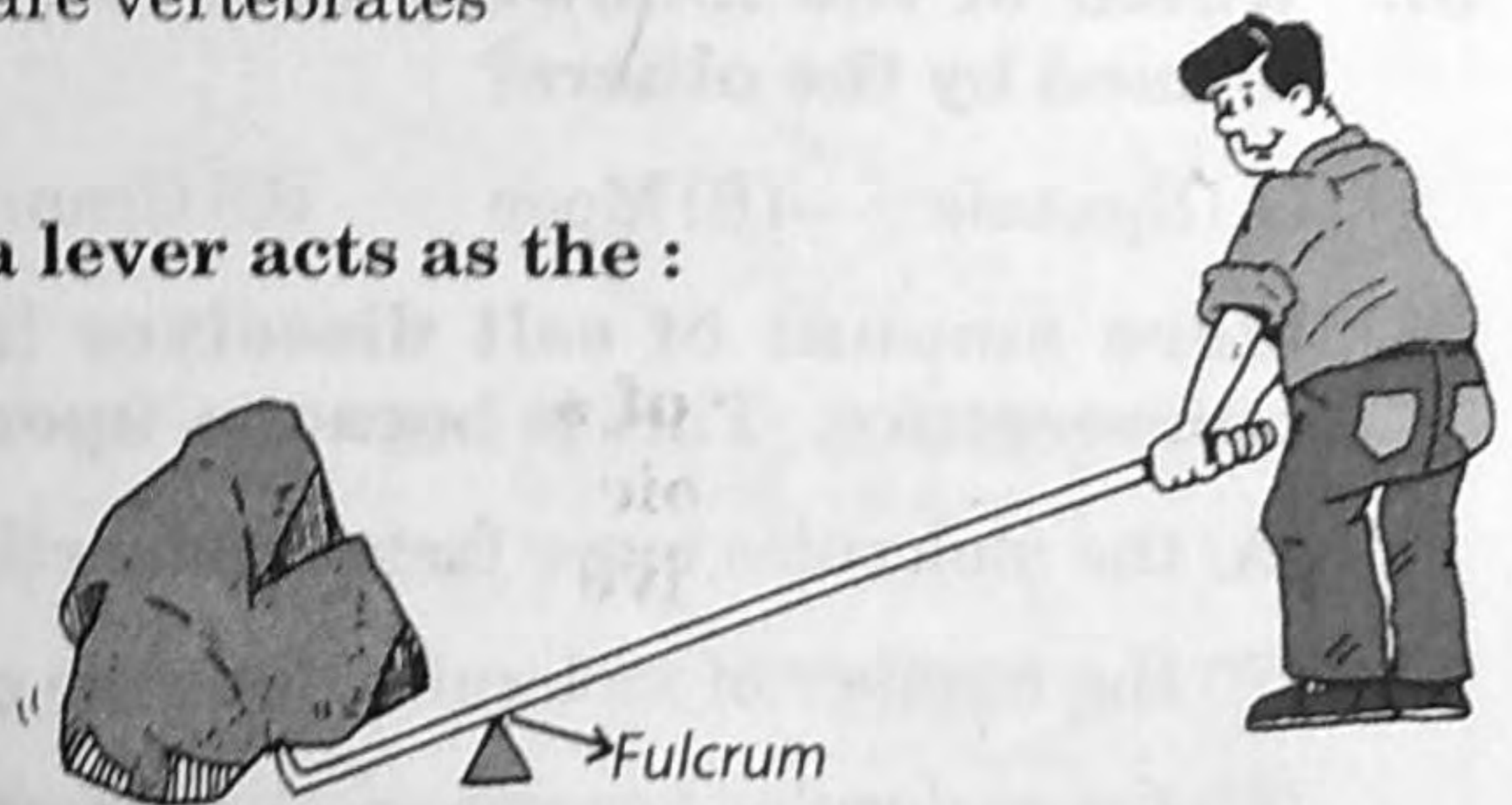


51. Which of the following is true regarding the animal kingdom?

- (A) Snakes are invertebrates
- (B) Spider is an insect
- (C) All mammals are vertebrates
- (D) All of these

52. The fulcrum of a lever acts as the :

- (A) support
- (B) load
- (C) effort
- (D) all of these



53. Which of the following is the best way to separate a mixture of sand and salt?

- (A) Filter and then mix with water
- (B) Mix with water, filter and then evaporate
- (C) Mix with water, evaporate and then filter
- (D) Evaporate and then mix with water

54. How many legs does a bee have?

- (A) Two
- (B) Four
- (C) Six
- (D) Eight

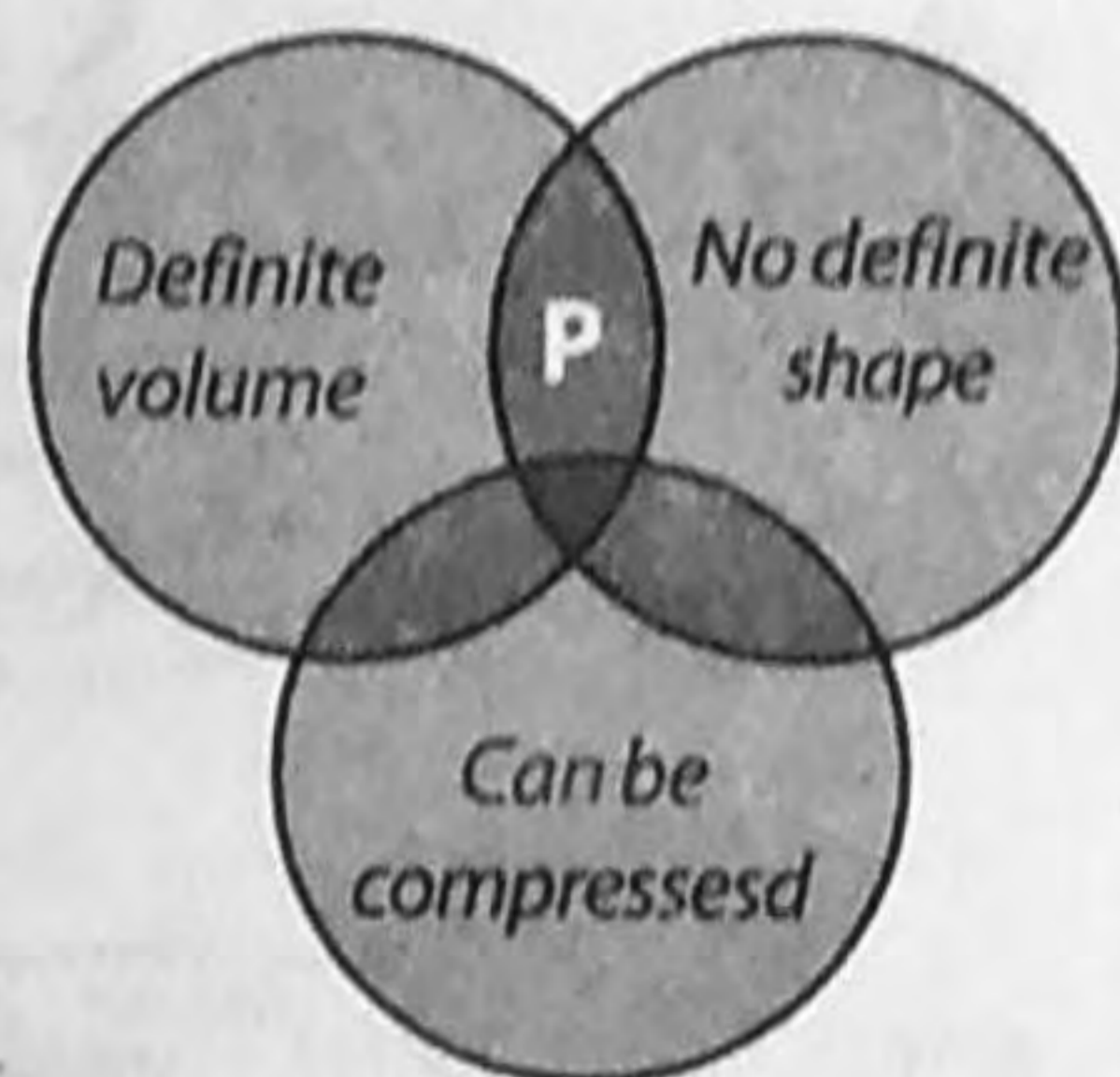


55. Which of the following properties of water is the main cause of sea breeze?
- (A) Water has a fixed volume but no fixed shape
  - (B) Water does not absorb heat as fast as land does
  - (C) Water cools down faster than the land
  - (D) The surface of water is clear and without any obstruction
56. Vishal was watching the Moon during a total lunar eclipse. Slowly the entire Moon became dark and invisible. At this point Vishal can assume that :
- (A) the Earth has come in between the Sun and the Moon
  - (B) the Sun has blocked the view of Moon
  - (C) the Moon has come in between the Sun and the Earth
  - (D) the Moon has stopped producing light
57. Which of the following does not belong to the group formed by the others?
- (A) Sputnik      (B) Moon      (C) Uranus      (D) Aryabhata
58. More amount of salt dissolves in water at a higher temperature. This is because, upon heating :
- (A) the molecules move faster and farther
  - (B) the number of molecules decrease causing more space
  - (C) the molecules become smaller creating more space
  - (D) all of these
59. Which of the following energy transformations take place when a sky diver jumps from an aeroplane with a parachute?
- (A) Solar  $\rightarrow$  kinetic
  - (B) Kinetic  $\rightarrow$  wind
  - (C) Potential  $\rightarrow$  kinetic
  - (D) None of these



60. Which of the following can be placed in the area marked 'P' in the given Venn diagram?

- (A) Oxygen
- (B) Water
- (C) Clay
- (D) Paper

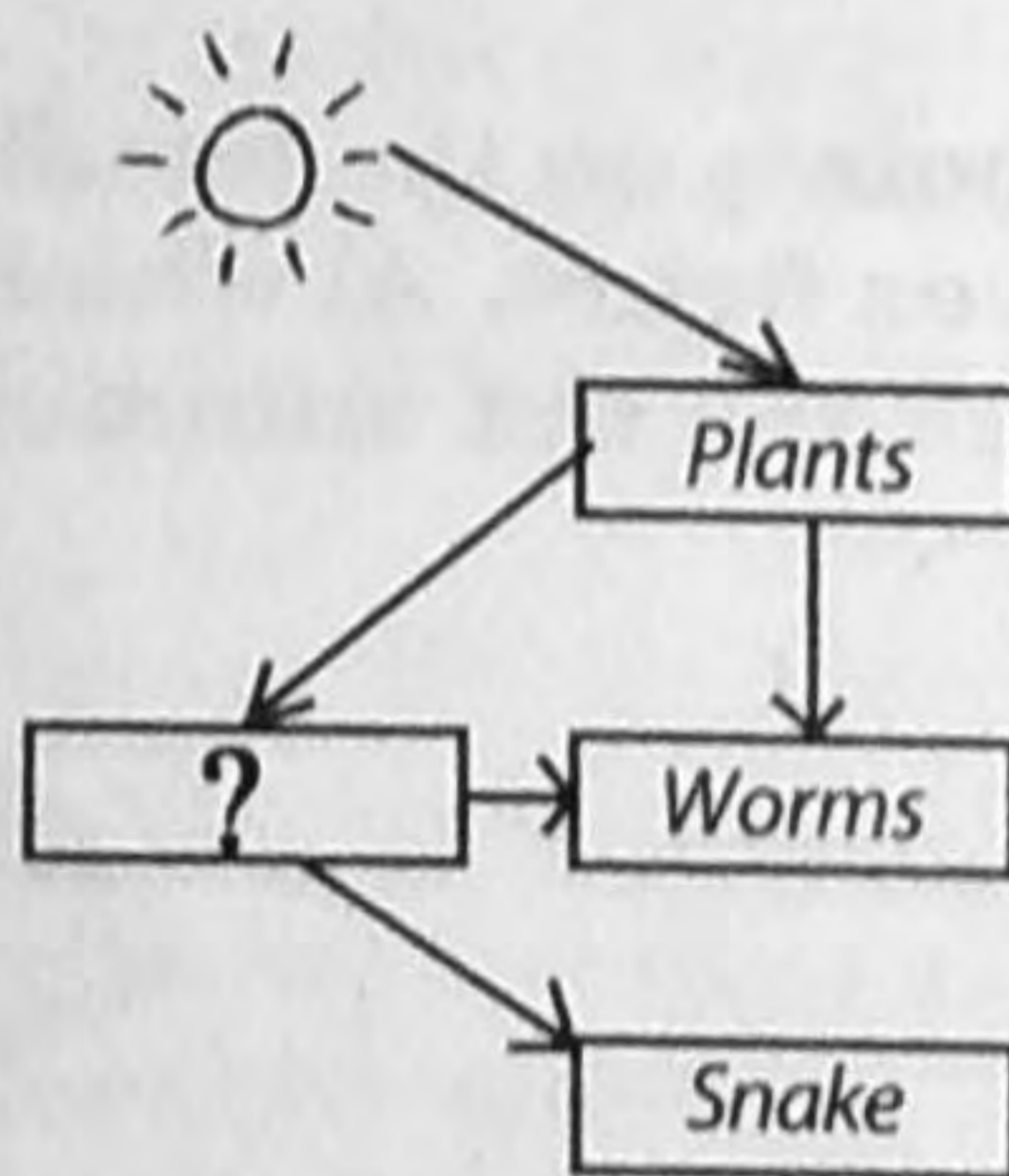


61. A car will skid more on a wet road than on a dry one because, between the dry road and the car tyres there is more :

- (A) friction
- (B) lubricant
- (C) gravity
- (D) heat

62. Which of the following can be placed in the empty box in the given food chain?

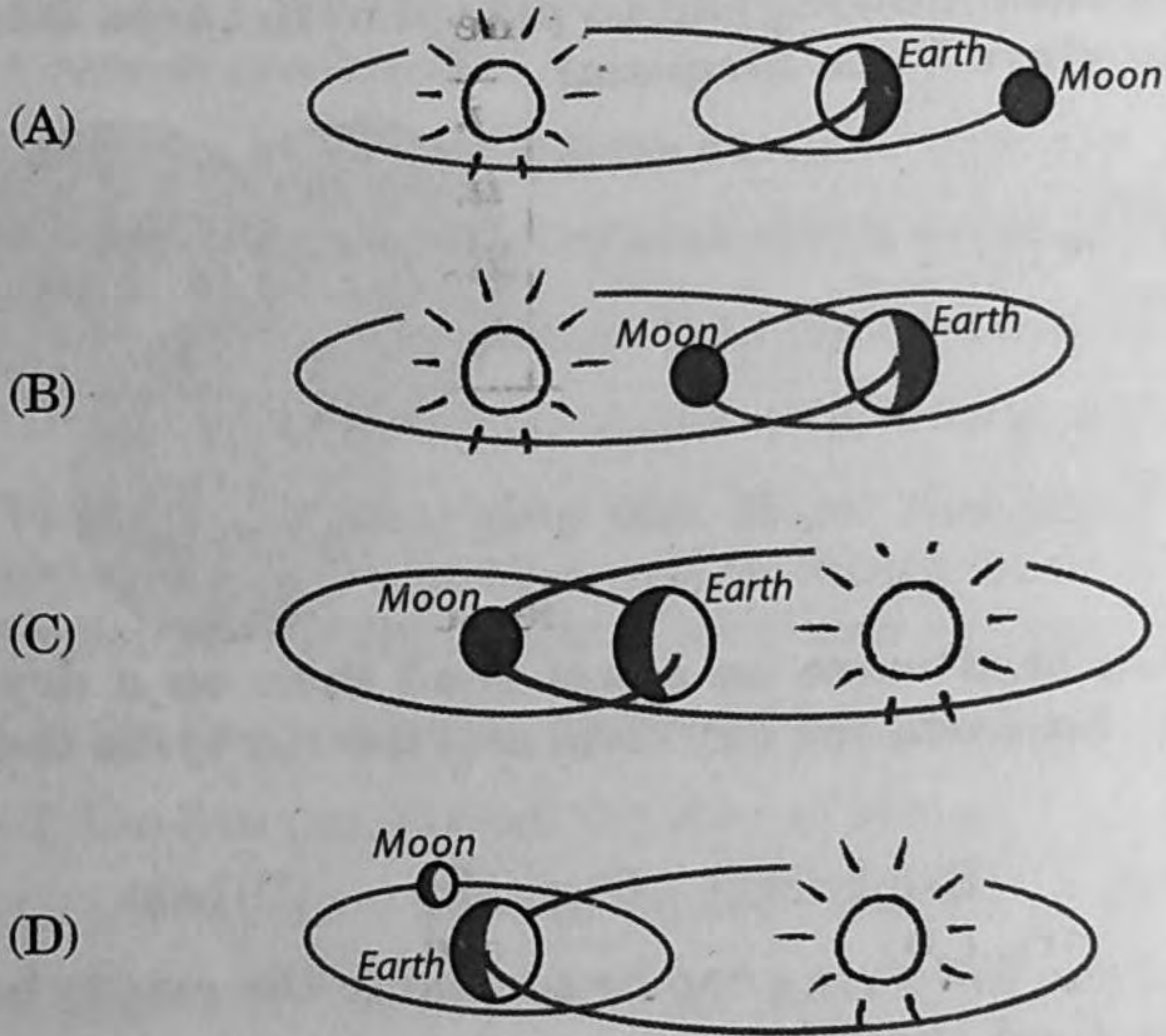
- (A) Tiger
- (B) Hen
- (C) Man
- (D) Vulture



63. Which of the following is NOT a function of roots?

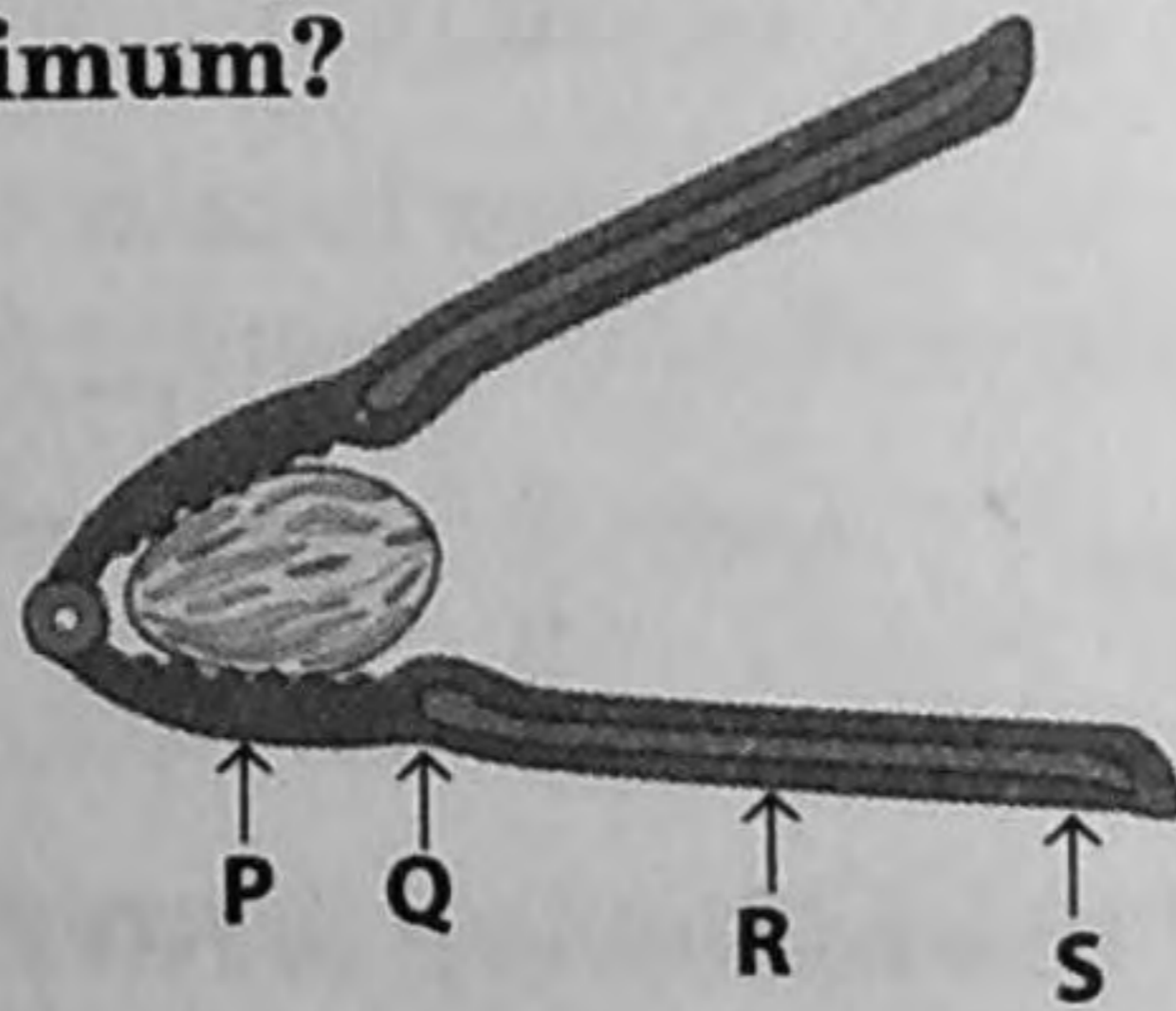
- (A) To provide support to the plant
- (B) To absorb water from the soil
- (C) To absorb minerals for the plant
- (D) To prepare starch for photosynthesis

64. Which of the following positions is NOT possible regarding the movement of Earth and Moon around the Sun?



65. Four points on the handle of a nut cracker are shown in the given figure. At which point will be the force required to crack the nut minimum?

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



66. Hypostomatous (stomata on the lower surface) plants are usually :

- (A) non-aquatic plants                      (B) aquatic plants  
(C) semi-aquatic plants                      (D) none of these

67. A seed that is large and covered by a thick fibrous outer covering is usually dispersed by :

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

68. Which of the following animals lays its eggs on the land?

- (A) Shark                      (B) Whale                      (C) Turtle                      (D) Frog

69. Match the following and select the correct answer.

a. Gliding joint	i. Shoulder
b. Pivot joint	ii. Neck
c. Hinge joint	iii. Wrist
d. Ball and socket joint	iv. Knee

(A) a - iii, b - ii, c - i, d - iv (B) a - iii, b - ii, c - iv, d - i

(C) a - ii, b - iii, c - i, d - iv (D) a - ii, b - iv, c - iii, d - i

70. The diseases that spread from person to person by direct physical contact are :

(A) malaria and filaria (B) T.B. and tetanus

(C) measles and chicken pox (D) jaundice and cough

71. Energy stored by water in the dams that generate electricity is :

(A) potential energy (B) electrical energy

(C) kinetic energy (D) heat energy

72. Which of the following expands the most on the supply of heat?

(A) Solid (B) Liquid

(C) Gas (D) Expansion is same in all the three

73. The effect of variation in climate because of the tilt in Earth's axis is felt more when one moves :

(A) along the equator (B) towards the poles

(C) towards the equator (D) around the poles

74. All skeletal muscles are :

(A) voluntary (B) involuntary (C) weak (D) strong

75. A kangaroo moves around by leaping with its strong hind legs. When moving its thick strong tail helps it to :

(A) defend against enemies

(B) maintain balance

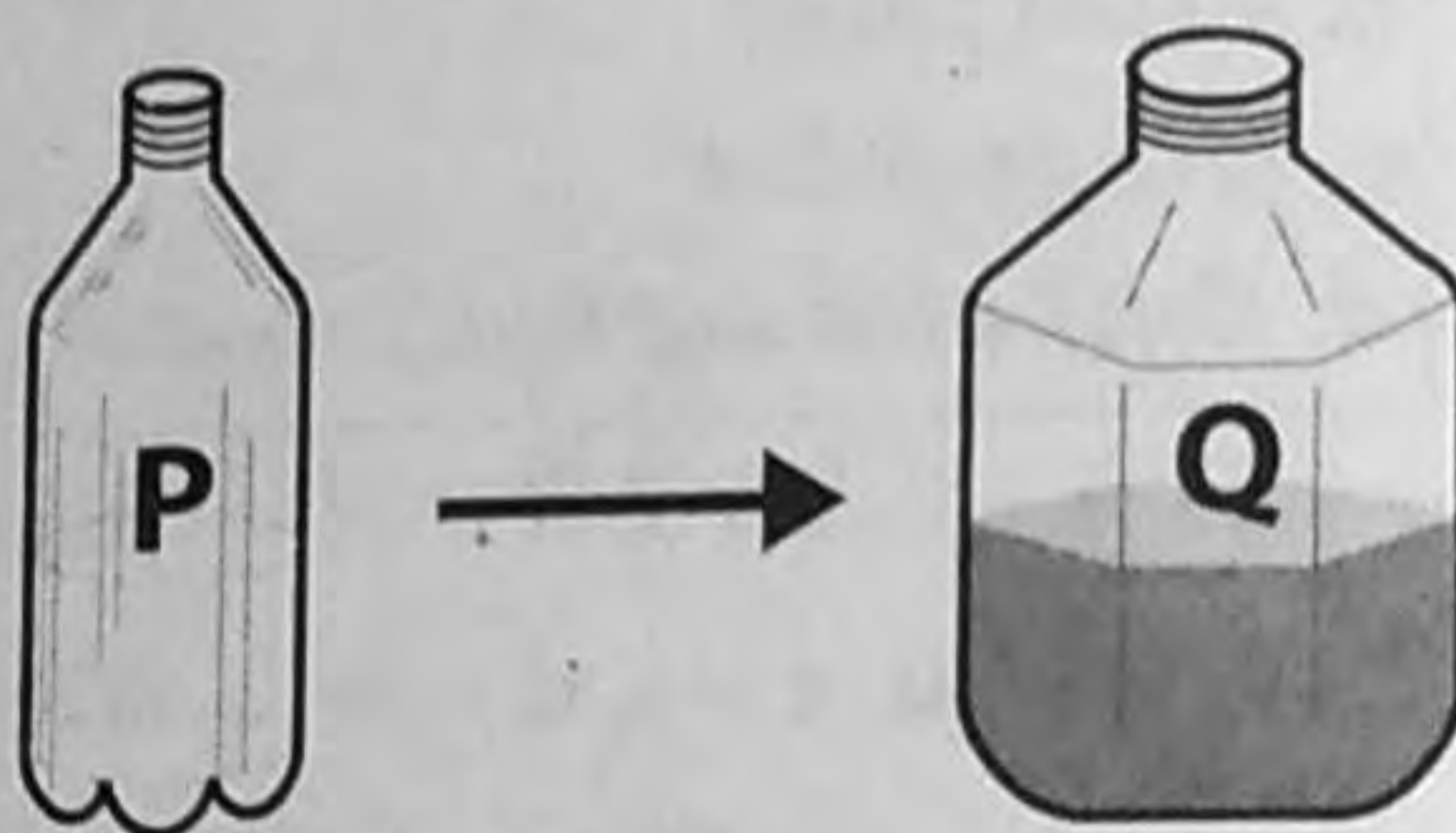
(C) have a firm grip on branches

(D) catch food on its way



76. Water present in container 'P' is transferred to container 'Q' as shown in the figure. Which of the following get changed when water is transferred from container P to container Q?

- (A) Volume
- (B) Mass
- (C) Temperature
- (D) Shape



77. A man carrying a bag of rice climbs up a building. What has he gained?
- (A) Potential energy
  - (B) Kinetic energy
  - (C) Heat energy
  - (D) Weight
78. Jaundice is a disease in which the eyes and finger nails turn yellowish. Which of the following carries the germs of this disease?
- (A) Air
  - (B) Water
  - (C) Soil
  - (D) Physical touch
79. Micropyle is a tiny opening present in the seed. The main function of micropyle is to :
- (A) allow water inside
  - (B) allow breathing
  - (C) absorb food and minerals
  - (D) remove waste materials
80. Which of the following actions is most closely associated with the spinal cord of our body?
- (A) Beating of heart
  - (B) Sense of sight
  - (C) Reflex action
  - (D) Breathing
81. The surface of the sun is made of :
- (A) solids
  - (B) liquids
  - (C) gases
  - (D) all of these
82. Rain drops fall down mainly because of :
- (A) gravity
  - (B) friction
  - (C) wind
  - (D) cold
83. Which method is suitable to separate coloured glass marbles from round stones?
- (A) Winnowing
  - (B) Handpicking
  - (C) Filtration
  - (D) Evaporation

84. Which of the following planets is NOT likely to be having different seasons like the Earth because it does not have a tilted axis?

- (A) Mars (B) Saturn (C) Neptune (D) Venus

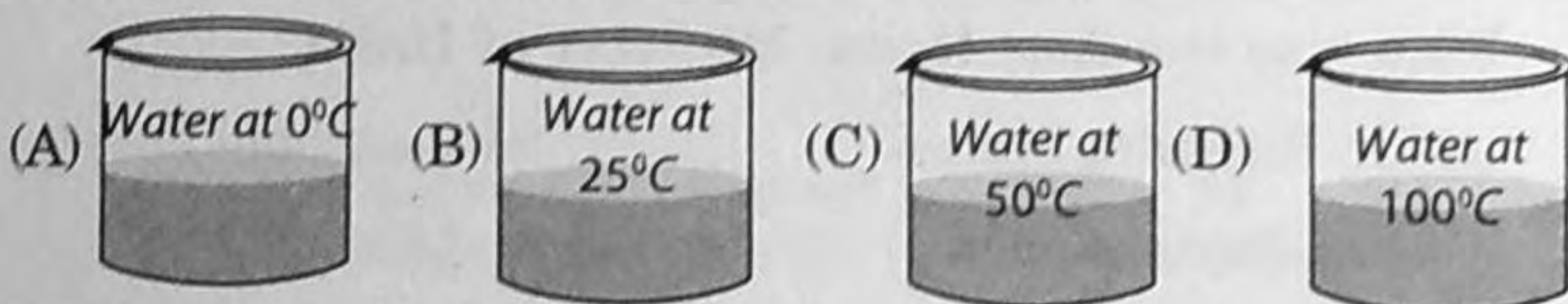
85. Why do people sweat more near the sea?

- (A) Because of the strong, cold winds from the sea  
(B) Because of less water vapour in the air  
(C) Because of more water vapour in the air  
(D) Because of warm winds from the sea

86. Most of the machines that move continuously have to be lubricated. What happens when a fan is not lubricated with grease or oil?

- (A) It makes more noise when running  
(B) It consumes more electricity  
(C) It requires frequent repair  
(D) All of these

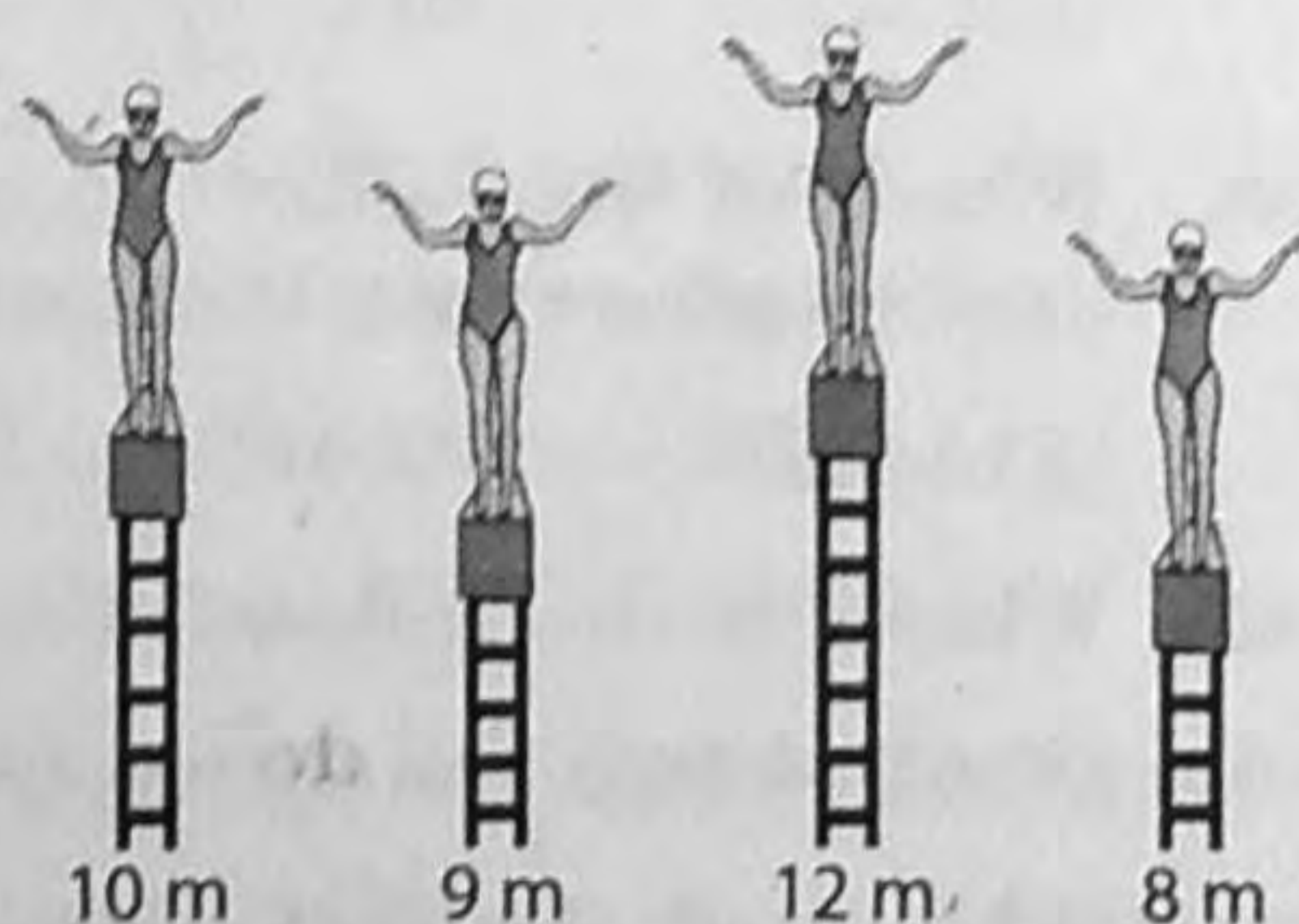
87. In which of the following containers will a spoon of sugar dissolve the fastest?



88. Which of the following statements is true?

- (A) Toads are reptiles (B) Bats have mammary glands  
(C) Penguin is a mammal (D) Crabs are vertebrates

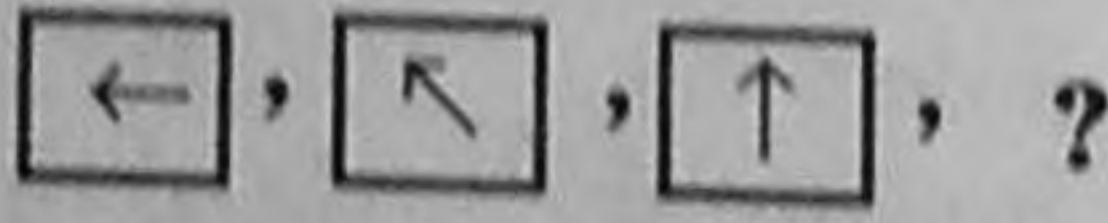

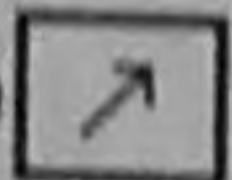
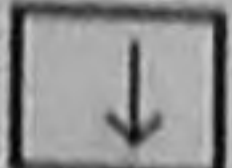
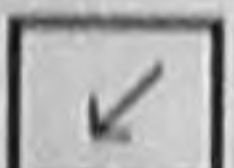
89. Four divers of the same weight dive from four different heights 10 m, 9 m, 12 m and 8 m as shown here. The diver from which height will have the highest kinetic energy on hitting the water below?



- (A) 10 metres (B) 9 metres  
(C) 12 metres (D) 8 metres

90. Our bones are made up of:

- (A) iron (B) calcium (C) sodium (D) potassium

91. Which meaningful word can be formed from the letters of the word **FATIGUE** ?  
 (A) GRAFT (B) FAST (C) EATING (D) GATE
92. If it is 5:45 now, what will be the time after 20 minutes ?  
 (A) 5:25 (B) 7:45 (C) 6:05 (D) 5:47
93. Prime Minister Manmohan Singh is also famous for his previous role as the :  
 (A) Defence Minister (B) Finance Minister  
 (C) Vice President (D) Army Chief
94. Car is to petrol, as a fan is to :  
 (A) electricity (B) air (C) kerosene (D) water
95. IBM is most closely related to :  
 (A) burgers (B) pens (C) computers (D) motorbikes
96. Who was the first Home Minister of India?  
 (A) Dr. Rajendra Prasad (B) Sardar Vallabhai Patel  
 (C) Jawaharlal Nehru (D) Indira Gandhi
97. Which figure should come next in the series given below?  
  
 (A)  (B)  (C)  (D) 
98. Which of the following is the abbreviation of one of the best engineering institutes in India?  
 (A) AIIMS (B) IIT (C) CCMB (D) ISI
99. Which of the following is NOT used in a computer ?  
 (A) Hard disk (B) Keyboard (C) Monitor (D) Antenna
100. Which of the following games is NOT played in the Olympics?  
 (A) Football (B) Hockey (C) Cricket (D) Wrestling