

SECTION A: SCIENTIFIC REASONING

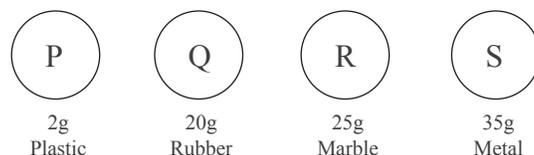
1. A child tries to lift a heavy suitcase, but he couldn't. It is because of a force opposing him. What is this force?

- a) The force of attraction between the earth and the suitcase.
- b) The force of attraction between the earth and the child.
- c) The weight of the suitcase.
- d) Both a) and c)

2. Decomposers release _____ back into the environment.

- a) CO_2
- b) CO_2 and O_2
- c) CO_2 and nutrients
- d) CO , O_2 & nutrients

3. Four balls P, Q, R and S are allowed to fall from same height on to a tray of fine sand. All the balls have same size and shape but are made of different materials.



Which of them will leave the deepest mark in the sand and why ?

- a) Ball 'S' as it is made of metal.
- b) Ball 'Q' and 'S'.
- c) Ball 'S' as it has the largest mass and weight, so it exerts greater force.
- d) Ball 'P' as it has the smallest mass.

4. Which one of the following is an incorrect statement about reflection of light?

- a) It takes place in the same medium.
- b) The incident ray, reflected ray and normal at the point of incidence lie on the same plane.
- c) The laws of reflection govern the reflection of light from plane mirrors only.
- d) Reflection of light occurs when an object does not allow light to pass through.

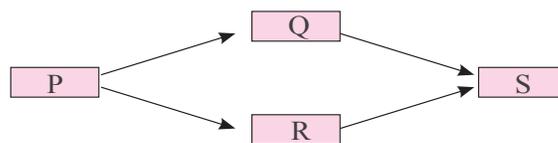
SECTION B: EVERYDAY SCIENCE

5. Water pollution can be caused by

- 1) Untreated sewage water flowing into the waterways.
- 2) Excessive use of chemical fertilizer.
- 3) Oil spills from ships.
- 4) Industrial waste being dumped into the rivers.

- a) Only 1 and 2
- b) Only 2 and 3
- c) Only 1, 2, 3
- d) 1, 2, 3 and 4

6. Study the given food web.



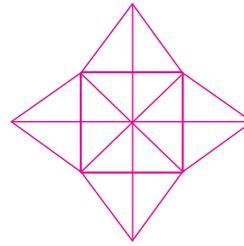
P, Q, R and S represent living things in a community. Choose the correct statement.

- a) None of them is a food producer.
- b) All of them depend directly or indirectly on solar energy.
- c) If 'P' is no more, 'S' will not get affected.
- d) S is not carnivorous.

SECTION C: LOGICAL REASONING

7. Amit found some words translated from an artificial language, while reading a book. If 'dionot' means 'oak tree', 'blyonot' means 'oak leaf' and 'blycrin' means 'maple leaf'. Which word could mean 'maple syrup' in that language?
- a) Blymuth b) Hupponot
c) Patrician d) Crinweel

8. Find the number of triangles in the given figure.



- a) 20
b) 24
c) 26
d) 28

SECTION D: BRAINBOX

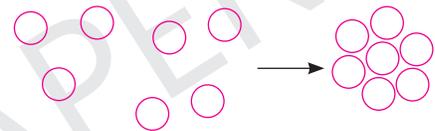
9. The volume of water used in a household over 3 months is shown below.

Which of the following is a possible reason for the trend in the volume of water used in the household over 3 months?



- a) Leaking tap was not fixed properly.
b) Water used for washing clothes was used for cleaning bathroom.
c) The tap was turned off while brushing teeth.
d) Both a) and c)

10. Observe the given diagram. It shows a change taking place in the particles of a substance. Which of the following statements is not correct?



- a) Heat energy is given out to the surrounding during the change.
b) After the change, the substance will have fixed volume but not fixed shape.
c) The motion of the particles is limited to fixed positions after the change.
d) The force of attraction between the particles becomes stronger during the change.



ANSWERS

1. (D) 2. (C) 3. (C) 4. (D) 5. (D) 6. (B) 7. (C) 8. (D) 9. (A) 10. (C)