

SURPRISE TEST

Class VI

F.M – 15

- Choose the correct option -

1. Choose the statement that is NOT correct about rocks.

- A. Igneous rocks are formed when molten material cools and solidifies.
- B. Sedimentary rocks may contain fossils.
- C. Metamorphic rocks are formed when existing rocks are changed by heat and pressure.
- D. Fossils are mainly formed when molten lava cools rapidly.

2. A compass is placed on a table and its needle is allowed to move freely. After some time, the needle stops in a particular direction. What does this show?

- A. Magnets always point towards the East.
- B. Magnets have the property of showing the North–South direction.
- C. Magnets are attracted only by iron tables.
- D. Magnets always point towards the West.

3. Riya can see objects clearly through a clean glass window. Through a butter-paper sheet, she can see only blurred shapes, while a wooden door does not allow light to pass through. How should these materials be classified?

- A. Transparent, translucent, opaque
- B. Translucent, transparent, opaque
- C. Opaque, transparent, translucent
- D. Transparent, opaque, translucent

4. A rope is 12 m 60 cm long. It is cut into 4 equal pieces. What is the length of each piece?

- A. 3 m 05 cm
- B. 3 m 10 cm
- C. 3 m 15 cm
- D. 3 m 20 cm

5. Assertion (A): Kerosene and water are immiscible liquids and form two separate layers when mixed.
Reason (R): Kerosene forms the upper layer because it is less dense than water.

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the complete explanation of A.
- C. A is true, but R is false.
- D. A is false, but R is true.

6. A plant growing in a desert has a thick, fleshy stem and very small leaves or spines. What do these features mainly help the plant to do?

- A. Absorb more water from the air
- B. Reduce water loss and store water
- C. Increase water loss through leaves
- D. Grow only during rainy seasons

7. A sewing machine needle moves up and down repeatedly while the wheel of the machine turns continuously. Which statement is correct?

- A. Both show rotational motion.
- B. The needle shows oscillatory motion, while the wheel shows rotational motion.
- C. The needle shows circular motion, while the wheel shows rectilinear motion.
- D. Both show rectilinear motion.

8. A child has bleeding gums and slow healing of wounds due to a deficiency of a particular vitamin. Which vitamin is likely deficient?

- A. Vitamin A
- B. Vitamin B₁
- C. Vitamin C
- D. Vitamin D

9. Which of the following correctly describes the single-stroking method of making a magnet?

- A. A magnet is rubbed repeatedly over an iron bar in the same direction using one pole.
- B. A magnet is rubbed back and forth over an iron bar in both directions.
- C. Two magnets are rubbed from the centre of the bar towards opposite ends.
- D. The iron bar is heated strongly and allowed to cool.

10. A maize plant and a rose plant are observed by a student. The maize has parallel venation and fibrous roots, while the rose has reticulate venation and a taproot. Which conclusion is correct?

- A. Both plants are monocots.

B. Both plants are dicots.

C. Maize is a monocot and rose is a dicot.

D. Maize is a dicot and rose is a monocot.

11. A solar cooker usually has a transparent glass cover over the cooking vessel. What is the main purpose of this cover?

A. To prevent sunlight from entering

B. To allow sunlight in and help trap heat inside

C. To reflect all the sunlight away

D. To keep the cooking vessel cool

12. Which of the following best defines solubility?

A. The ability of a substance to settle at the bottom of a liquid

B. The maximum amount of a substance that can dissolve in a given amount of solvent at a particular temperature

C. The ability of a liquid to change into a gas

D. The process of separating a dissolved substance from a solution

13. A girl is sitting in a moving train and sees a tree through the window. Which statement is correct?

A. The girl is at rest with respect to the tree.

B. The tree is moving with respect to the girl, but at rest with respect to the ground.

C. The tree and the girl are both at rest with respect to the ground.

D. The tree is moving with respect to the ground.

14. During a school sports camp, Meera notices that after several hours of activity in the heat, one student becomes unusually tired, feels dizzy, and complains of painful muscle cramps. The teacher says the student may have lost too much of an important mineral through sweat. Which mineral is most likely involved?

A. Iron

B. Calcium

C. Sodium

D. Iodine

15. During a food-testing activity, a student makes a paste of a food sample with water. She adds a few drops of copper sulphate solution followed by sodium hydroxide solution. After some time, the mixture develops a violet colour. Which food item is most likely being tested successfully?

A. Rice, mainly for starch

B. Egg white, mainly for protein

C. Butter, mainly for fat

D. Sugar solution, mainly for carbohydrate