

BCM SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA
CLASS VII
SUBJECT-SCIENCE
PAPER PATTERN ASSIGNMENT
Answer Key

Tick the correct option (1×3=3)

1. What effect does turmeric have when mixed with a basic solution?

a) It turns pink

b) It turns red

c) It turns yellow

d) It turns blue

2. What is the cell called that results from the fusion of gametes?

(a) Spore

(b) Embryo

(c) Zygote

(d) Pistil

3. Which of the following is not an inorganic impurity present in sewage?

(a) Nitrate

(b) Phosphorus

(c) Urea

(d) Metal salt

4. (b) Both assertion (A) and reason (R) are true, but reason (R) is not the correct explanation of assertion (A).

5. (d) Assertion (A) is false, but reason (R) is true.

6. (d) Assertion (A) is false, but reason (R) is true.

CASE STUDY (1×2=2)

7. 1. Anaerobic respiration

2. Anaerobic respiration

8. No, because orange juice is acidic in nature. Excess of acid in the stomach causes indigestion.

We take an antacid such as milk of magnesia which contains magnesium hydroxide

9. Veins have valves to prevent blood from flowing backwards and pooling, whereas arteries pump blood at very high pressures, which naturally prevents back flow

10. An electromagnet can be switched OFF or switched ON as desired and this is not possible in the permanent magnets. That is why the electromagnets are better than the permanent magnets.

11. The Eucalyptus trees are planted along sewage ponds because these trees absorb all surplus wastewater rapidly and release pure water vapour into the atmosphere.

12. As we know that the side mirror of a scooter must be of convex mirror so that we can view a wide range of traffic spread over a large area. But if plane mirror is used, we are not able to see large area of traffic which may be difficult for driving vehicle and can cause accident.

13. Seed dispersal avoids overcrowding of young plants around their parent plants. It helps in preventing competition between the plants and its own seedlings for sunlight, water and minerals. One of the benefits of seed dispersal is that it enables the plant to grow into new habitats for wider distribution and provides them with better chance of survival.

14. a) No, he will not observe band of seven colours because laser light consists of single colour. But seven colours of bands are only observed, when a white light is passed through a prism and dispersion takes place

b) These mirrors can be differentiated by bringing our face close to each mirror turn by turn. Since, a plane mirror will produce an image of the same size and erect as our face while a concave mirror will produce a magnified and erect image when our face is closer to it and on other side, a convex mirror will produce a diminished and erect image.