

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

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

ASSERTION-REASON (1×3=3)

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true, but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true, but reason (R) is false.
- (d) Assertion (A) is false, but reason (R) is true.

4. Assertion (A) : Some changes which result in formation of new substances are called chemical changes.

Reason (R) : Chemical changes are irreversible.

5. Assertion (A): Virtual image can't be seen by human eye.

Reason (R): Virtual image is formed by diverging rays.

6. Assertion (A): Pulmonary artery carries impure blood to the lungs.

Reason (R): Pulmonary vein carries impure blood from lungs to the heart.

CASE STUDY (1×2=2)

7. Respiration is a basic characteristics of all living beings. It is an energy releasing reaction. The living cells break down complex high energy food molecules into simple low energy molecules by oxidation, forming carbon dioxide and water. By this a large amount of energy is released which is used to maintain life activities by the organism.

1. Which type of respiration is found in yeast?

2. Name the type of respiration involved in the formation of lactic acid in muscles.

8. Paheli is suffering from indigestion due to acidity. Is it advisable to give her orange juice in this situation and why? (2)

9. Veins have valves which allow blood to flow only in one direction. Arteries do not have valves. Yet the blood flows in one direction only. Can you explain why? (2)

10. Electromagnets are better than permanent magnets. Explain why (2)

11. The Eucalyptus trees are planted along sewage ponds. Give reason. (3)

12. The side mirror of a scooter got broken. The mechanic replaced it with a plane mirror. Mention any inconvenience that the driver of the scooter will face while using it (3)

13. Mention the benefits of seed dispersal (3)

14. a) Boojho made light from a laser torch to fall on a prism. Will he be able to observe a band of seven colours? Explain with a reason.

b) Differentiate between a plane mirror, concave mirror and a convex mirror without touching them. (5)