

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

General Instructions:

- 1. Q. 1 to 2 are multiple choice type questions.**
- 2. Q. 3 to 4 are Assertion- Reason type questions.**
- 3. Q. 5 to 9 are short answer type questions.**
- 5. Q. 10 is Case Study based question.**

Tick the correct option

1. Ventilation in rooms occurs due to
a) Conduction b) Convection c) Radiation d) all of these
2. Which of the following is not essential for photosynthesis
a) Light b) Chlorophyll c) Carbon dioxide d) Oxygen

The questions (3-4) below consist of an assertion and a reason. Use the following key to choose the appropriate answer.

- (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 correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true

3. Assertion (A): Deforestation destroys an ecosystem.
Reason (R): A forest is cleared to cultivate crops.
4. Assertion (A) : Telephone wires sag more in summer.
Reason (R) : They expand due to summer heat.
5. Rohit picked up a fallen yellow leaf and tested it for the presence of starch. Will it turn bluish black with iodine? Why?
6. Why it is advisable to paint the outer walls of houses with light colours especially in hot regions?
7. Is it correct to say that decomposers help to keep the earth clean? Give reasons.
8. Why are nitrogenous fertilizers not added in the soil in which leguminous plants grow?
9. Draw a well labelled diagram of sea breeze and land breeze.

10. Case Study

In a classroom experiment, students heated a metal rod with wax-attached pins and observed that the pins fell one by one starting from the heated end. In another experiment, coloured water in a beaker was heated from below, and the colour started rising and circulating. These demonstrated the different modes of heat transfer: conduction in solids and convection in liquids.

- a) What type of heat transfer was demonstrated in metal rod experiment?
- b) What mode of heat transfer caused coloured water to rise in beaker?
- c) What kind of heat transfer allow us to feel warmth from the sun even though it is 150 million Km away?