

BRAIN INTERNATIONAL SCHOOL

Science Assignment

Class: VII

April'21

Chapter -1: Nutrition in plants .

1. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below :

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

Assertion: Insectivorous plants are partial heterotrophs.

Reason: They feed on insects to obtain nitrogen compounds for their growth.

Assertion: Leaves are the food factories of the plant

Reason: Leaves transport food to various parts of the plant.

Q . Answer the following questions briefly:

- i. Define photosynthesis.
- ii. Fill in the blanks of the paragraph given below :
Leaves have a green pigment called _____ which captures _____ from sunlight. This _____ is used in the process of _____ and along with other raw materials like _____ and _____ synthesize _____.
- iii. Can you give me a name? I live in water, people keep me in an aquarium and feed me.
Write the name of organism and its mode of nutrition.
- iv. Write the functions of stomata.
- v. How do rhizobium bacteria take nitrogen from atmosphere?
- vi. Wheat dough if left in the open, after a few days start to emit a foul smell and becomes unfit for use. Give reasons.

Chapter 4:Heat .

1. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below :

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

Assertion: A Laboratory thermometer cannot be used to measure the human body temperature.

Reason: The mercury level starts falling quickly on taking it out from the mouth

Assertion: Transfer of heat by the process of conduction takes place only in solids.

Reason: In solids, the particles are not closely packed.

Q .Answer the following questions briefly:

- i. Why is water an exception to the fact that liquids expand on heating?
- ii. To keep her soup warm Paheli wrapped the container in which it was kept with a woolen cloth. Why can she apply the same method to keep a glass of cold drink cool?
- iii. At a campsite there are tents of two shades one made with black fabric and the other with white fabric. Which one will you prefer for resting during winter?

Chapter 5:Acids , bases and salts .

1. ASSERTION-REASON QUESTIONS:

Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below :

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

Assertion: Organic acids are not naturally occurring acids.

Reason: They are found in various types of plants and animals.

Assertion: The acids prepared from the minerals of the earth are called mineral acids.

Reason: They are also known as laboratory acids.

Q .Answer the following questions briefly:

- i. What is the chemical name of vitamin C ?
- ii. Name the gases which cause acid rain?
- iii. Look at the given reaction:



Sodium chloride formed in this reaction remains in solution form. Can we get solid sodium chloride from this solution. Suggest a method if any.

- iv. Which indicator is generally used to observe neutralization reaction?
- v. While playing in a park, a child was stung by a wasp. Some elders suggested applying paste of baking soda and others lemon juice as remedy. Which remedy do you think is appropriate and why?