



PERIODIC TEST 1 (APRIL, 2023)

SUBJECT- GENERAL SCIENCE

CLASS - VII

TIME - 90 MIN.

M.M - 40

GENERAL INSTRUCTIONS:-

- All questions are compulsory.
- Draw neat and labeled diagrams.
- Draw margins on both sides.
- Leave two lines at the end of every answer.

Q1. Answer the following in one word or in one sentence. (1×4=4)

- What type of plant is dodder?
- Which organism holds food particles with the help of Cilia?
- Name the plant on which larvae of Bombyx Mori feed.
- What is the ultimate source of energy?

Q2. Fill in the blanks: (1X4=4)

- Hydra is a _____ organism.
- Amylase acts on _____.
- _____ secretes hydrochloric acid.
- Sheeps are mainly shared in _____ weather.

Q3. Short answer questions:**(2X2=4)**

- a) Silk farmers allow only a small percentage of peoples to develop into moths. Why?
- b) What is the colour of a healthy tooth? How does it turn yellowish?

Q4. Short answers:**(3X2=6)**

- a) Write a short note on insectivorous plants.
- b) How does digestion take place in ruminants?

Q5. Long Answers:**(5X2=10)**

- a) Explain the process of chewing the cud? Include diagram
- b) Write about various types of silk produced in India.
- ii) What do you mean by 'throwing' in silk processing?

Q6. Case-based question:**(4X3=12)**

1. When sunlight falls on chlorophyll molecules, the energy is absorbed. The carbon dioxide and water combine for making food (glucose) which is stored in the form of starch. The stem then carries it to different parts of the plant. Then water is absorbed by the roots and carried up to the leaf by xylem. The prepared food is taken to all parts by phloem.

- a) In which form plants store food?
- b) Which pigment gives green colour to the plants?
- c) Who conducts water in the plants ?
- d) Which gas is utilized by the plants during the process of photosynthesis?

2. Juice is stored in a sac-like part called gallbladder which is located near the liver. The gallbladder releases the bile juice into the small intestine whenever food reaches there. The bile juice is devoid of any digestive enzymes. It is required for digestion of fat. The fats cannot be digested easily because they are insoluble in water and are present as large globules. Bile juice breaks down big fat droplets into smaller droplets. These are then easily digested by the enzyme released from the pancreas.

- a) How does bile juice help in digestion of fat?
- b) Where is the digestion of fat completed?
- c) Why is digestion of fats difficult as compared to that of other nutrients?
- d) Which organ secretes the bile juice?

3. When two different organisms live together and are benefited from each other. This relationship is called Symbiosis. For example algae and fungus. Algae is an autotroph and fungus is a saprophyte. They live together in a lichen. The fungus supplies water and minerals to the algae whereas the algae supplies food to the fungus. Thus both are mutually benefited.

- a) Define symbiosis.
- b) How is algae different from fungus?
- c) Where do algae and fungus live together?
- d) How are fungus and algae interdependent?