



TEST PAPER: BIOLOGY

Time: 45 Minutes

Class: 8th I.C.S.E.

Max. Marks: 30 Marks

Date: 6th June, 2018

Marking Scheme: Three questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

Question 1

a. Find the odd word out and justify your choice.

1. Tracheid, companion cell, sieve plate, sieve tubes.
2. Phloem parenchyma, xylem fibers, phloem fibers, vessels.
3. Tracheids, vessels, sieve tubes, xylem fibers.

b. Give Reasons

1. Xylem is basically dead tissue.
2. Vascular tissues in plants are called complex tissues.
3. Xylem tracheids are hollow tubes.

c. Name the following

1. Living, elongate cells having perforated plates of phloem.
2. Phloem cells that are devoid of nucleus, ribosomes & vacuoles.
3. Xylem cells that are pitted & have tapering ends.

Question 2

a. State true or false & rewrite the false ones after correcting them.

1. Xylem helps in carrying the food to all parts of the plant.
2. The plant tissues that help in transportation are parenchyma & sclerenchyma.
3. Phloem provides water & minerals to roots.

b. Answer the following.

1. Do companion cells have sieve plates? If not, which cells have them?
2. What is the function of vessels?
3. Why the phloem transport is called bidirectional?

c. Give functions.

1. Xylem fibers.
2. Tracheids.
3. Companion cells.
4. Parenchyma.

Question 3

a. Answer the following:

1. Which plant tissues carry water, nutrients & food in a plant Why there is a need of transport in plants?
2. Explain xylem rings.

b. Define.

1. Transportation.
2. Vascular bundles.
3. Xylem

c. Look at the diagram and answer the questions.

1. What are these nucleated cells of phloem called?

2. Name this structure of one of the phloem cells.

3. Why is this part hollow?

4. Name this cell of xylem tissue.

