

TEST PAPER: BIOLOGY Time: 70 Minutes Class: I.C.S.E. 8 Max. Marks: 50 Marks Date: 25th July 2018

Marking Scheme: All 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. Define.

- 1. Root pressure.
- 2. Zygote.
- 3. Fertilization.

B. Differentiate (2 differences each).

- 1. Sepals & petals.
- 2. Transpiration & translocation.
- 3. Sperm & ovum.

C. Explain with reason, weather the rate of transpiration will increase or decrease on these days.

- 1. A cloudy & humid day.
- 2. A day with bright sunlight.
- 3. A hot summer day.
- 4. A wind & dry day.

Question 2:

A. Fill in the blanks.

- 1. _____ & _____ are the gametes responsible for reproduction in human beings.
- 2. In grafting, the receiving shoot is called _____ & the fixed shoot is called _____.
- 3. The phloem _____ are the dead sclerenchyma cells.
- 4. Process of formation of gametes is called _____.

B. Answer the following.

- 1. What are micro ¯o nutrients?
- 2. Give two examples for each of the above.
- 3. Name two nutrients that cause yellowing of leaves.

C. Describe.

- 1. Metamorphosis.
- 2. Any two properties of roots that help it to absorb water efficiently.

Question 3:

A. Correct & rewrite these sentences.

- 1. Semi permeability of the cell wall of root cells helps in osmosis.
- 2. Semen is the mixture of secretions of prostate & sweat glands.
- 3. Pollen grains are stored in sporangium.
- 4. Xylem fibers are the only living cells in the xylem tissue.
- 5. Pollination results in bud formation.
- 6. Water pollinated flowers produce a large quantity of pollens.

B. Give reason.

- 1. Testes are contained in hanging sacs outside the body.
- 2. Transpiration is important for ascent of sap.
- 3. The grafted points of a rose plant are bound with tape & covered with wax.

C. Describe.

- 1. Two functions of ovary.
- 2. Two disadvantages of vegetative reproduction.

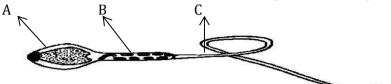
Question 4.

A. Name the following.

- 1. Long, narrow, thin tube of an androecium.
- 2. Disc like upper end of a pistil.
- 3. Broad sac-like bilobed structure of a stamen.
- 4. Pollen grains are produced in this part of an androecium.
- 5. Leaf like structures of calyx.
- 6. Plant structure that helps in counting the age of trees.

B. Answer the following.

- 1. Why a farmer prefers to grow certain plants/trees vegetatively?
- 2. What is this cell called? Name A, B, C also name the part of the body that stores it till its maturation.



C. Answer the following questions:

1. Give the way of reproduction for each of these.

- a. Bryophyllum.
- b. Amoeba.
- c. Planeria.
- d. Asparagus.

2. Name the agents of pollination for each of these plants.

- a. Vallisneria.
- b. Palm.
- c. Marigold.
- d. Maize.

Question 5:

A. Select the correct option.

- 1. Transpiration occurs mostly through _____ of the leaves.

 a. Cuticle
 b. Stomata

 c. veins
- Fertilization in human beings takes place in _____.
 a. Ovary b. Uterus c. Fallopian tubes.
- 3. _____ & ____ are the two cells of xylem that give mechanical support to plants.
- a.Tracheid & vessels
 b. Tracheid & fibers
 c. Fibers & vessels.

 4.
 _____ & ____ are the two female hormones.
 a. Estrogen & progesterone
 b. Estrogen & testosterone
 c. Progesterone &
 - testosterone

B. Describe the following with an example each.

- 1. Fragmentation/regeneration.
- 2. Spore formation.

C. Describe the structure & function of the different types of cells of phloem.