

Answers to this Paper must be written on the paper provided separately. You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the question paper. The time given at the head of this Paper is the time allowed for writing the answers.

Section A is compulsory. Attempt any five questions from Section B. The intended marks for questions or parts of questions are given in brackets.

SECTION A (40 Marks)

(Attempt all questions from this section)

1. Choose the correct option.

1. Minerals from soil are absorbed by root hairs by the mechanism of

- a) Diffusion
- b) Osmosis
- c) Active transport.
- d) Selective absorption

2. Fruits develops from this part of flower

- a) Thalamus
- b) Ovary
- c) Ovule
- d) None of these

3. Formation of sperm and ova is called

- a) Embryogenesis
- b) Gametogenesis
- c) Fertilization
- d) Implantation

4. Snakes eats frog. Here snake is called

- a) Primary consumer
- b) Secondary consumer
- c) Tertiary consumer
- d) Any of these

5. Fusion of sperm and ovum is known as

- a) Copulation
- b) Incubation
- c) Maturation
- d) Fertilization

6. Which of the following is a rhizome

- a) Potato
- b) Ginger
- c) Sweet potato
- d) Radish

7. Raisins swell up when put in

- a) Saturated sugar solution

- b) Mustard oil
- c) Rain water
- d) Concentrated salt solution

8. Vultures play an important role in

- a) Decomposer
- b) Carnivore
- c) Primary consumers
- d) Scavenger

9. A pair of coiled muscular tube which have funnel like opening are

- a) Sperm duct
- b) Oviduct
- c) Ejaculatory duct
- d) Uterus

10. Feathery stigma is a feature of flower, pollinated by

- a) Wind
- b) Water
- c) Insect
- d) None of these

II. Fill in the blanks.

1. Water evaporates from the.....of plants.

2. Transport of substances against the concentration gradient by using energy is called.....

3. Trophic level are shown graphically by.....
4. Seeds develops from.....
5. Attachment of embryo to uterine wall is called.....
6. The male gametes in plants are formed within.....

III. Match the column.

Column I	Column II
1. Hormone released by ovary	a) Blue Green Algae
2. Autotrophs	b) Ascent of Sap
3. Breadmould	c) Lichen
4. Translocation	d) Estrogen
5. Cell sap	e) Spores
6. Symbiosis	f) Vacuole

IV. Give one word.

1. Process of eating and being eaten.
2. The organ where sperms are produced.
3. Loss of water from leaf surface by evaporation.
4. Upward movement of water in plants.
5. A small piece of tissue taken for tissue culture.
6. Growing of new plants from a few cells in culture medium.

V. Encircle the odd one out, Give reason for your choice.

1. Testis, vagina, sperm duct, penis
2. Ovary, egg, zygote, sperm

3. Potato, tomato, onion, turmeric
4. Binary fission, budding, grafting, fragmentation
5. Nitrogen, phosphorus, copper, calcium
6. Root hair, root, xylem, phloem

VI. State whether following statements are true or false. If false rewrite the correct form of statements.

1. Root hairs are multicellular structures.
2. Self pollination occurs between the flower borne on the same plant.
3. Grape plants are grown by fragmentation.
4. The first cell of a living organism is embryo.
5. Abiotic components include plants and animals.

SECTION B (40 Marks)

(Attempt any five questions from this sections)

VII. a) Differentiate between

- i) Diffusion and Osmosis
- ii) Xylem and phloem

b) Give advantage and disadvantages of self-pollination and cross pollination.

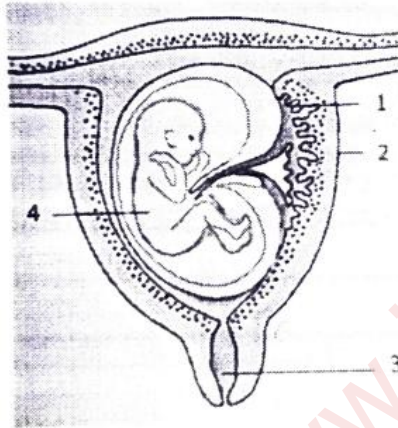
VIII. a) What is the importance of flower for a plant?

b) Define

- i) Clone
- ii) Hybrids

- iii) Gestation period
- iv) Parasitism
- v) Scavengers

- IX. a) Describe two types of food chains with the help of diagrams.
 b) The given diagram is of foetus in the womb.



- a) Label the parts 1 - 4
- b) Given function of part marked 1
- c) Name two changes that have occurred in the wall of uterus.
- d) How long does the foetus remain in the part marked?

- X. a) Give Reason-Transpiration helps in ascent of sap
 b) Differentiate between
- i. Predation and Parasitism
 - ii. Producers and consumers

- XI. a) List the events involved in sexual reproduction.

b) What is meant by fragmentation? Mention the significance of vegetative propagation.

XII. a) Give reason spores are covered with hard covering.

b) Draw a diagram to show budding in yeast.

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