

City International School

FIRST TERMINAL EXAMINATION – 2015 - 2016

Date : 10/08/2015

Marks : 40

Std : IX

Subject : Biology (Paper III)

Time : 1 hr

Answer to this question must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is spent in reading the question paper.

The time at the head of this paper is the time allowed for writing the answers.

Attempt all questions from SECTION A and two questions from SECTION B.

The intended marks for questions or parts of questions are given in the bracket. ()

SECTION A [20 MARKS]

Attempt all questions

Question 1

- a. Name the following: (5)
- Organelle associated with cellular digestion.
 - Filaments are united to form a single stamina tube.
 - Flower which contain all the four whorls.
 - A leaf which can produce vegetatively.
 - A flower which contains only carpels.
- b. i. State the functions of: (3)
- Synergids
 - Chromatin fibres
 - Thalamus
- ii. What kind of vegetative propagation occurs in the following? (2)
- Lemon
 - Potato
- c. State whether the following statements are true or false. If false, write the correct statements by changing the first or the last word only. (5)
- Vallisneria flowers are pollinated by wind.
 - Genes are located in chromosomes.
 - A cell wall is made up of proteins.
 - In onion and lily, vegetative propagation takes place by bulbs.
 - The cell is the structural and functional unit of life.

- d. Match the items in column A with those in column B. You must rewrite the matching pairs. (5)

Column A	Column B
a. Rubber	1. Grafting
b. Gladiolus	2. Corm
c. Sugarcane	3. Root
d. Mango	4. Layering
e. Sweet potato	5. Cutting

SECTION B [40 MARKS]

Attempt any two questions from this section.

Question 2

- a. i. Draw a neat and labeled diagram of an ovule as seen in a longitudinal section. (5)
- ii. Define triple fusion.
- iii. Name the floral part which develop into following structures:
- | | | | |
|---------|-------------|--------------|----------|
| 1. seed | 2. pericarp | 3. Seed coat | 4. fruit |
|---------|-------------|--------------|----------|

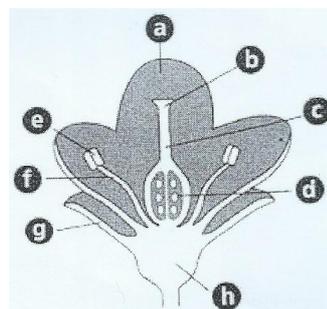
- b. Differentiate between the following pairs on the basis of what is mentioned within brackets: (5)

- Wind pollinated flower and Insect pollinated flower (scientific name)
- Flower and Inflorescence (Definition)
- Autogamy and Allogamy (Definition)
- Plant cell and Animal cell (Cell wall)
- Vegetative propagation and Reproduction (Definition)

Question 3

- a. Observe the figure given below and answer the questions. (5)

- Label the parts numbered d, e, f, h.
- State the functions of the parts labeled a, b, c, g.
- Whether the flower shown is unisexual or bisexual? Give reason.



b. Explain the following terms:

(5)

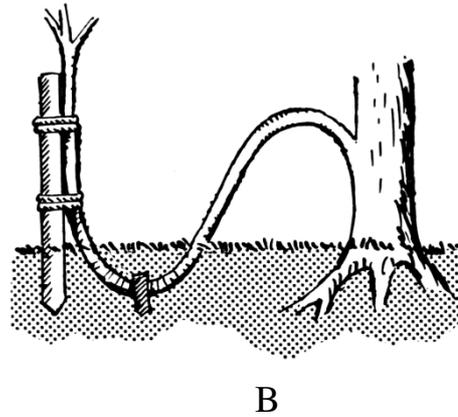
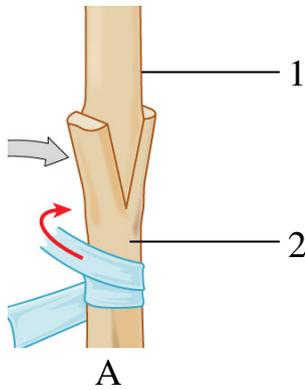
- i. Perianth
- ii. Double fertilization
- iii. Protoplasm
- iv. Protrandry
- v. Pollination

Question 4

a. Give below is a diagram A and B representing methods of propagation. Observe these and answer the following questions.

(5)

- i. What is represented in A and B?
- ii. Label the parts in A.
- iii. Describe the process in A and B.



b. Answer the following questions.

(5)

- i. State any two advantages of self – pollination.
- ii. Mitochondria have cristae. Give reason.
- iii. State any two characteristics of a wind pollinated flower.
- iv. Differentiate between Gamosepalous and Polysepalous.
- v. Where are the following structures locate:
 - 1. Centriole
 - 2. Ovule