

## FIRST SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Agriculture

## SDC 1AG 02—FUNDAMENTALS OF HORTICULTURE

Time : Three Hours

Maximum : 80 Marks

(A) Objective Answer Questions (one mark each) :

- 1 India ranks \_\_\_\_\_ in fruits and vegetable production in the world.
- 2 \_\_\_\_\_ is an example for herbaceous and succulent plant.
- 3 \_\_\_\_\_ plant require longer photo period
- 4 Mango is rich in vitamin\_\_\_\_\_
- 5 In \_\_\_\_\_ system of planting plant to plant and row to row distance is same.
- 6 Plant which bear male and female flower on different plants are known as \_\_\_\_\_.
- 7 T budding is also called \_\_\_\_\_ budding.
- 8 Nursery should be in \_\_\_\_\_ and \_\_\_\_\_ shape to minimise the length of boundary for fencing.
- 9 Production of microspore and megaspore in plants is known as \_\_\_\_\_.
- 10 Example for protandrous plant is \_\_\_\_\_.

(10 × 1 = 10 marks)

(B) Short answer questions Answer any *eight*. (2 marks each) :

- 1 Define climacteric fruit with example.
- 2 What is quincunx system of planting ?
- 3 What is lag, log and exponential phase in growth curve ?
- 4 Define vernalisation.
- 5 Define dichogamy. List out its types.
- 6 List out methods to induce seedlessness.

Turn over

- 7 Whip and tongue grafting
- 8 What is graft incompatibility ? List out its types.
- 9 List out the important qualities of good sites for constructing a nursery.
- 10 What is fruit drop ? List out types of fruit drop.
- 11 What is false fruit ?
- 12 What is day neutral plant ?

(8 × 2 = 16 marks)

(C) Short Essay. Answer any *six*. (4 marks each) :

- 1 Importance and scope of horticulture in India and Kerala.
- 2 Cutting and its methods.
- 3 Describe important planting system with the help of diagram.
- 4 What is growth ? Describe the characteristics of growth.
- 5 What is Photoperiodism ? Describe its classification based on duration required.
- 6 Describe types of fruits.
- 7 What is double fertilization ? Explain the process with the help of diagram.
- 8 What are the different types of media and containers used in plant nursery for raising seedlings ?
- 9 Write brief note on development of graft union.

(6 × 4 = 24 marks)

(D) Essay. Answer any *two*. (15 marks each) :

- 1 Describe factors associated with flowering and fruit set.
- 2 What is unfruitfulness ? What are the internal and external factors affecting fruitfulness in plants.
- 3 Describe methods to test seed viability.
- 4 Describe nursery layout with detailed diagram.

(2 × 15 = 30 marks)