



Registration No:

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B.Sc (Ag.) 1ST SEMESTER EXAMINATIONS (REGULAR),NOV/DEC 2019

HORT-111

FUNDAMENTALS OF HORTICULTURE

Time : 2 Hours

Maximum : 50 Marks

(Answer all questions of Section – A)

SECTION – A

Q.1 Fill up the Blanks with suitable and meaningful word(s): [0.5 X 10 = 5]

- a Branch of Horticulture which deals with the cultivation of fruit crops is called as -----.
- b Botanical name of papaya is -----.
- c Number of plants required for planting of mango in 5 hectare of land at a spacing of 10 m x 10 m is -----.
- d The method of application of fertilizers along with irrigation is known as -----.
- e The plant species or variety that supplies pollen for effective pollination and fruit set is called as -----.
- f The practice of growing the vegetable crops out of their normal growing season is termed as -----.
- g The plant that is planted in the center of square of quincunx system of planting is called as -----.
- h The horticultural crops which are cultivated extensively in large scale and whose produce is utilized only after processing are called as -----.
- i Marigold is commercially propagated by -----.
- j Sweet potato belongs to family -----.

Q.2. Define or Explain the following in one or two sentences [5 × 1 = 5]

- a) Pollination b) Heading back c) Polyembryony d) Layering e) Dormancy

Q.3. Match the following [10 × 0.5 = 5]

Column A

- a) Litchi
- b) Gladiolus
- c) Rubiaceae
- d) Mango
- e) Dichogamy
- f) Rhizome
- g) Water deficiency
- h) Jackfruit
- i) Offset
- j) Rubber

Column B

- i) Drupe
- ii) Ginger
- iii) Plantation Crop
- iv) Nut
- v) Sorosis
- vi) Corm
- vii) Date Palm
- viii) Different maturing time
- ix) Coffee
- x) Wilting and flagging of leaves

Q.4. Write 'TRUE' or 'FALSE' against the following statements [10 × 0.5 = 5]

- i. Guava is commercially propagated through budding.
- ii. Stratification is useful for delaying dormancy in temperate fruits.
- iii. Inarching is a method of grafting.



- iv. Plants raised from seeds may or may not be the exact replica of the parents.
- v. The edible part of pineapple is mesocarp.
- vi. 2,4-D is a growth regulator at low concentration, which is also used as weedicide/herbicide at higher concentration.
- vii. Based on the parts used in spices, bark is used as spice in Cinnamon.
- viii. In hexagonal system of planting, 50% more plants are planted as compared to square system of planting.
- ix. 'Bardari' is a feature of Japanese type of garden.
- x. Litchi is a sub-tropical fruit crop.

SECTION – B: (Short Answer Questions)

- (Attempt any five questions. Each question carries equal marks) [5 x 6 =30]
- Q.5 Classify the fruit crops on the basis of climatic requirements with suitable examples. How the climatic factors influence the growth and productivity of horticultural crops? Explain. (3 + 3 =6)
- Q.6 Define "Garden" and write down the different types of garden with suitable examples (2 + 4 =6)
- OR
- What do you mean by propagation? Write in brief on various plant propagation methods followed in horticultural crops with suitable examples.
- Q.7 What is an orchard? Explain briefly about different system of planting with advantages and disadvantages. (1 + 5 = 6)
- Q.8 What do you mean by "Plant bio-regulators". Write down the different types of plant bio- regulators and their commercial role of in horticulture. (1 + 2 +3 =6)
- Q.9 List out different types of vegetable gardens and explain detail about kitchen garden. (2 + 4 = 6)
- OR
- Differentiate between training and pruning. Write down the different methods of training and pruning followed in horticultural crops
- Q.10 Enumerate in brief the importance of manures and fertilizers in horticulture production system. Briefly describe the various types of fertilizers and their application methods in horticulture. (2 + 4 =6)