



Registration No: .....  
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AR-2018

B.Sc (Ag)

FIRST YEAR EXAMINATION-JULY 2019

HT-111

FUNDAMENTALS OF HORTICULTURE

Time : 2 Hours

Maximum : 50 Marks

(Answer **all** questions of Section – A)

**SECTION – A**

1. Fill in the blanks. (0.5 x 10 = 5)
  - i. ----- is called as the ripening hormone.
  - ii. Pineapples can be propagated using -----.
  - iii. Mound layering method of propagation is followed in ----- crop.
  - iv. Removal of unwanted branches of fruit plants is called as -----.
  - v. Most water efficient method of irrigation is -----.
  - vi. ----- is the most intensive method of vegetable gardening.
  - vii. Scientific name of small cardamom is -----.
  - viii. ----- Method of training is followed in grape.
  - ix. Horticulture is derived from two words i.e. ----- and -----.
  - x. Most quick method of lawn establishment is -----.
2. Pick out the right answer from the multiple options. (0.5 x 10 = 5)
  - a. Okra belongs to --- family
    - i. Solanaceae ii. Leguminosae iii. Malvaceae iv. Basellaceae
  - b. Mango is propagated by
    - i. Cutting ii. Budding iii. Grafting IV. Layering
  - c. Which hormone is known as juvenile hormone?
    - i. Auxin ii. Gibberellin iii. Cytokinin iv. Ethylene
  - d. Which fruit crop is not seasonal in nature?
    - i. Mnago ii. Litchi iii. Jackfruit iv. Lime
  - e. For rooting of cuttings which hormone is used?
    - i. Auxin ii. Gibberelin iii. Cytokinin IV. Ethylene
  - f. Which spice is a tree spice?
    - i. Cinnamon ii. Fenugreek iii. Black pepper iv. Small cardamom
  - g. Which method is used for propagation in ber?
    - i. Ring budding ii. Layering iii. Veneer grafting iv. Inarching
  - h. Which of the following is a self-pollinated vegetable crop?
    - i. Chilli ii. Cabbage iii. French bean iv. Pumpkin
  - i. Which fruit crop is suitable for cultivation in arid zones?
    - i. Mango ii. Aonla iii. Litchi IV. Pineapple
  - j. Pruning is essential for which fruit crop?
    - i. Litchi ii. Sapota iii. Grape iv. Coconut



3. Match the followings. (0.5 x 10 = 5)

- |                     |                         |
|---------------------|-------------------------|
| 1 Olericulture      | a Aromatic plant        |
| 2 Air layering      | b Extensive cultivation |
| 3 Veneer grafting   | c Study of vegetables   |
| 4 Truck gardening   | d Litchi                |
| 5 Palma rosa        | e Spice plant           |
| 6 Trellis system    | f Growth retardant      |
| 7 Nutmeg            | g Citrus                |
| 8 Abscicic acid     | h Mango                 |
| 9 Subtropical fruit | i Medicinal plant       |
| 10 Tulsi            | j Bottle gourd          |

4. Define/Explain (1 x 5 = 5)

- Parthenocarpy
- Wind break
- Lawn
- Moghul garden
- Simple and complex fertilizer

### **SECTION – B**

(Attempt any **five** questions. Each question carries equal marks) 5x6=30

- Define Horticulture. Write down the different branches of Horticulture. Explain the importance and scope of Horticulture.
- Explain the layout, plant and site selection and advantages of kitchen gardening.
- Briefly describe the advantages and disadvantages of sexual and asexual method of plant propagation and list down the various methods of asexual plant propagation.
- Enumerate the different layout methods for establishment of an orchard with diagram.
- Differentiate between training and pruning. Describe the different methods of training and pruning.
- List down the different irrigation methods. Describe the advantages and disadvantages of drip and sprinkler irrigation methods.

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