



Term End Examination 2025-2026
Programme – B.Sc.(Ag)-Hons-2023
Course Name – Hi-tech Horticulture
Course Code - EC-BAG671A(T)
(Semester VI)

Time : 2:0 Hours

Group-A

(Multiple Choice Type Question)

$$1 \times 20 = 20$$

1. Choose the correct alternative from the following :

- (i) Show the correct answer: Chemical thinning of blossoms in fruit crops can be effectively and cheaply done by spraying which chemical substance?
 - a) NAA
 - b) IAA
 - c) IBA
 - d) ABA
- (ii) The practice of complete removal of the trunk in trees like Cinchona leaving 30-35 cm stump alone is summarized as:
 - a) Lopping
 - b) Pollarding
 - c) Coppicing
 - d) Bending
- (iii) Show the correct answer: The practice of smoking the trees like mango, commonly employed in Phillippines in order to produce off-season crop is referred to as:
 - a) Bending
 - b) Pollarding
 - c) Smudging
 - d) Coppicing
- (iv) Show the correct answer: Bending of branches is widely practiced in the Deccan for increasing fruit production of which crop?
 - a) Mango
 - b) Guava
 - c) Grape
 - d) Citrus
- (v) The practice of partial ringing of a branch above a dormant lateral bud in order to increase the yield of fig trees in Pune region of Maharashtra is summarized as:
 - a) Ringing
 - b) Notching
 - c) Pinching
 - d) Scoring
- (vi) Show the correct answer: Fruit buds borne terminally and unfold to produce inflorescence without leaves is commonly seen in which fruit crop?
 - a) Mango
 - b) Guava
 - c) Apple
 - d) Grapes
- (vii) Show the correct answer: Fruit buds borne terminally and unfold to produce leafy shoots that terminate in to flower clusters is commonly seen in which fruit crop?

- a) Mango b) Guava
c) Apple d) Grapes
- (viii) Show the correct answer: Bower system of training is generally followed for the cultivation of which group of vegetables?
- a) Solanaceous vegetables b) Cruciferous vegetables
c) Bulbous vegetables d) Cucurbitaceous vegetables
- (ix) Show the correct answer: Vellaikolumban- a polyembryonic cultivar, commonly used as commercial rootstock for High Density Planting (HDP) of which fruit crop?
- a) Mango b) Guava
c) Apple d) Pear
- (x) Show the correct answer: Ultra Dwarfing Rootstock M27, commonly used as commercial rootstock for High Density Planting (HDP) of which fruit crop?
- a) Mango b) Guava
c) Apple d) Pear
- (xi) Show the correct answer: Pusa Srijan- a suitable rootstock, commonly used for High Density Planting (HDP) of which fruit crop?
- a) Mango b) Guava
c) Apple d) Pear
- (xii) Show the correct answer: A appropriate variety of mango which is suitable for High Density Planting (HDP):
- a) Ratna b) Sindhu
c) Alphonso d) Amrapali
- (xiii) Show the correct answer: A appropriate variety of papaya which is suitable for High Density Planting (HDP):
- a) Pusa Nanha b) Red Lady
c) Pusa Giant d) CO-5
- (xiv) The system of farming in which a farmer grows selected crops under buy back arrangement with an agency, is summarized as:
- a) Organic Farming b) Contract Farming
c) Natural Farming d) Low-input Farming
- (xv) Show the correct answer: Which system of irrigation supplies water to the plant equivalent to its consumptive use?
- a) Funnel System of Iriigation b) Drip System of Irrigation
c) Ring Basin System d) Flod System of Irrigation
- (xvi) The method of propagation in which the new plants can be developed in an artificial medium under aseptic conditions from very small pieces of plants such as embryos, seeds, stems, shoot tips, root tips, callus, signle cells and pollen grains is summarized as:
- a) Micropropagation b) Grafting
c) Layering d) Genetic Engineeering
- (xvii) Show the correct answer: The most commonly used medium as a culture medium in tissue culture is:
- a) Gamborg medium (B5) b) Quoirin & Lepoivre medium (QL)
c) Murashige and Skoog medium (MS) d) Nitsch and Nitsch medium (NN)
- (xviii) Show the correct answer: Which among the following technique is useful in the production of interspecific and intergeneric hybrids which could not be otherwise accomplished and also in overcoming ovule abortion ?
- a) Cell Culture b) Embryo Culture
c) Meristem Culture d) Callus Culture
- (xix) Show the correct answer: The leguminous crops have symbiotic association with soil bacteria of which genus?
- a) Azotobacter b) Clostridium
c) Rhizobium d) Axomonas

(xx) Show the correct answer: The example of aerobic free living nitrogen fixing bacteria:

- a) Azotobacter
- c) Rhizobium

- b) Clostridium
- d) Chlorobium

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Group-B

(Short Answer Type Questions)

2.5 x
10=25

- 2. Explain the term- Hi-tech. Horticulture. (2.5)
- 3. Explain the term-Soil Solarization. (2.5)
- 4. Explain the term- Integrated Nutrient Management (INM). (2.5)
- 5. Explain the term- Integrated Pest Management (IPM). (2.5)
- 6. Explain the term-Greenhouse. (2.5)
- 7. Explain the term-Poly house. (2.5)
- 8. Explain the term-Poly tunnel. (2.5)
- 9. Explain the term-Shade net house. (2.5)
- 10. Discuss the role of CPCT. (2.5)
- 11. Express your opinion regarding the importance of Fumigation of growing media in Hi-tech. Nursery. (2.5)

OR

Express your opinion regarding the importance of Horticulture Food Processing. (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

- 12. "Modern farming systems through Hi-tech. horticulture holds significant importance and offers vast opportunities for technological innovation and efficiency"- Justify the comment. (5)

OR

"Nursery raising of horticultural crops plays a crucial role in achieving successful crop production by providing a vital foundation for plant growth and development"- Justify the statement. (5)
