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Term End Examination 2025-2026
Programme – B.Sc.(Ag)-Hons-2023
Course Name – Protected Cultivation
Course Code - EC-BAG571C (T)
(Semester V)

Full Marks : 50 **Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question) 1 x 20=20

1. *Choose the correct alternative from the following :*

(i) The radiation in the 400 to 700 nm wavelength is summerized as:

a) Photosynthetically Active Radiation b) Infra Red Radiation
c) Ultra Violet Radiation d) None of these

(ii) Show the correct answer: Mechanized harvesting is possible in which type of tomato cultivars?

a) Determinate Cultivars b) Semi-Determinate Cultivars
c) Indeterminate Cultivars d) All of these

(iii) Show the correct answer: Presence of inflorescence at every internode is the common feature of which type of tomato cultivars?

a) Determinate Cultivars b) Semi-Determinate Cultivars
c) Indeterminate Cultivars d) All of these

(iv) Show the correct answer: Which type of tomato cultivars are most appropriate for growing under protected condition?

a) Determinate Cultivars b) Semi-Determinate Cultivars
c) Indeterminate Cultivars d) All of these

(v) Show the correct answer: Single Stem Training is the most common training method for which type of tomato cultivars?

a) Determinate Cultivars b) Semi-Determinate Cultivars
c) Indeterminate Cultivars d) All of these

(vi) Show the correct answer: Calcium deficiency in protected condition such as green house brings about which physiological disorder in tomato fruit?

a) Puffiness b) Blossom End Rot (BER)
c) Cat-face d) Golden Flake

(vii) The concept of production of vegetable crops out of the normal season under protected condition can be summarized as:

a) Kitchen Gardening b) Vegetable Forcing

c) Floating Vegetable Garden
d) Truck Garden

(viii) Show the correct answer: The vegetable crop which have been called as The Christmas Ornaments of Vegetable World?

a) Asparagus
b) Sweet Pepper
c) Tomato
d) Chilli

(ix) The transferring of young seedlings into another bed, pan or tray is summarized as:

a) Thinning
b) Pricking
c) Hardening off
d) Mulching

(x) The practice of removal of excess seedling to facilitate aeration and better development, is summarized as:

a) Thinning
b) Pricking
c) Hardening off
d) Mulching

(xi) Show the correct answer: The electromagnetic wavelength of Near Infrared Radiation (NIR)

a) 400-700 nm
b) 315-400 nm
c) 300-315 nm
d) 700-3000 nm

(xii) Show the correct answer: Which type of radiation is important for crop production?

a) PAR (Photosynthetically Active Radiation)
b) FIR (Far Infrared Radiation)
c) NIR (Near Infrared Radiation)
d) UB-A and UV-B (Ultraviolet Radiation-A and Ultraviolet Radiation-B)

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(xiii) Show the correct answer: Green houses for commercial floriculture was 1st establised in India in 1965 by which organization?

a) Indian Agricultural Research Institute (IARI)
b) Indo-American Hybrid Seed Company (IAHS)
c) Institute of Himalayan Bio-resourse Technology (IHBT)
d) Indian Institute of Horticultural Research (IIHR)

(xiv) The condition, wherein the male, female and perfect flowers are developed in a single plant, is summarized as:

a) Gynoecious Form
b) Trimonoecious Form
c) Dioecious Form
d) Monoecious Form

(xv) Show the correct answer: Size of the insect proof net for virus free production:

a) 10-20 mesh
b) 40-60 mesh
c) 60-80 mesh
d) 100 mesh

(xvi) Show the correct answer: Leading grafted vegetable in the world:

a) Water Melon
b) Pumpkin
c) Tomato
d) Cucumber

(xvii) Show the correct answer: Presently how many Presicion Farming Development Center (PFDC) have been operating to promote various plasticulture applications in horticulture?

a) 22
b) 21
c) 20
d) 29

(xviii) Show the correct answer: The type of nursery bed which is commonly utilized in winter and summer season to protect the young, tender seedlings from environmental fluctuation:

a) Raised Nursery Bed
b) Sunken Nursery Bed
c) Flat Nursery Bed
d) None of these

(xix) Show the correct answer: The most devastating disease of vegetable crops in nursery:

a) Late Blight
b) Powdery Mildew
c) Damping off
d) Bacterial Wilt

(xx) Show the correct answer: Elephant Foot- a physiological disorder of which crop, that occurs when the crop is grown in greenhouse in the soilless media?

a) Tomato
b) Sweet Pepper
c) Hot Pepper
d) Brinjal

Group-B

(Short Answer Type Questions) 2.5 x 10=25

2. Explain the term-Protected cultivation practices. (2.5)
3. Explain the term-Greenhouse. (2.5)
4. Explain the term-Poly house. (2.5)
5. Explain the term-Poly tunnel. (2.5)
6. Discuss the role of CPCT. (2.5)
7. Discuss the advantages of off-season vegetable cultivation. (2.5)
8. Discuss the role of Rain shelters. (2.5)
9. Discuss the Status of protected cultivation In India. (2.5)
10. Discuss Gravel culture. (2.5)
11. Discuss Bottom heat box. (2.5)

OR

Discuss the practice of topping in sweet pepper under protected cultivation. (2.5)

Group-C

(Long Answer Type Questions) 5 x 1=5

12. Discuss the national scenario of protected cultivation. (5)

OR

Discuss the hot frame and cold frame. (5)

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