

Total number of printed pages-4

**3 (Sem-5/CBCS) BOT HE 2**

**2022**

**BOTANY**

(Honours Elective)

Paper : BOT-HE- 5026

**(Horticultural Practices and  
Post-Harvest Technology)**

**[ DSE (H)-2 ]**

Full Marks : 60

Time : Three hours

**The figures in the margin indicate  
full marks for the questions.**

1. Answer the following as directed : **(any seven)**  
1×7=7

- (a) What is the origin of citrus fruit ?
- (b) Mention *one* advantage of Hydroponics.
- (c) What do you mean by quarantine practices ?
- (d) Write the botanical name of Indian laburnum.

Contd.

- (e) Define germplasm.
- (f) Mention one symptom of magnesium (Mg) deficiency in crop.
- (g) *Dendrobium* sp. belongs to \_\_\_\_\_ family. (Fill in the blank)
- (h) Give the definition of Irradiation of Food.
- (i) Auxin causes shoot cell division and elongation. (State True or False)
- (j) The name Gibberellin is based on which organism ?
- (k) Give examples – one each from biofertilizer and biopesticides.
- (l) What is 'starter culture' ?
2. Write in brief about : **(any four)** 2×4=8
- (a) Seed propagation
- (b) Economic importance of orchids
- (c) Perennials
- (d) Surface irrigation
- (e) Importance of flower shows
- (f) Benefits of urban forestry
- (g) Difference between cutting and layering
- (h) Patents

3. Answer the following : **(any three)** 5×3=15
- (a) Explain about Integrated Pest Management (IPM).
- (b) Write briefly on the role of fruits and vegetables in Indian economy.
- (c) Discuss the role of micropropagation and tissue culture techniques in conservation.
- (d) State the rules for making Bonsai.
- (e) Why is food safety an important scientific discipline ? Explain.
- (f) How can one minimize the loss during transportation of fruits ?
- (g) Write a note on conservation of germplasm.
- (h) Give an account on post-harvest diseases.
4. Answer the following : **(any three)** 10×3=30
- (a) Define Horticulture. What are its branches ? How Horticultural practices can provide employment opportunities ? 2+5+3=10

- (b) Write about the salient features, botany, and uses of *Tagetes* sp.  $2+5+3=10$
- (c) Give an account on management and marketing approaches of vegetables and fruit crops in India.  $5+5=10$
- (d) What is manure? What are its types? Explain how manure can enhance the soil fertility and crop productivity.  $1+4+5=10$
- (e) Describe about the different methods applied in horticulture to control weeds.
- (f) Explain how the different nutritional management practices can reduce the mineral deficiency diseases in horticultural crops.
- (g) Discuss the characteristic features of Mughal gardens and Japanese gardens.  $5+5=10$
- (h) What is IPR? What are its types? How IPR helps in conservation and management of economically important crops in Indian agriculture?  $1+2+7=10$
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