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)  $1 \times 7 = 7$ 
  - (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.

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

3. Answer the following : (any three)

 $5 \times 3 = 15$ 

- Explain about Integrated Pest Management (IPM).
- Write briefly on the role of fruits and vegetables in Indian economy.
- Discuss the role of micropropagation and culture techniques tissue conservation.
- State the rules for making Bonsai.
- Why is food safety an important scientific discipline? Explain.
- How can one minimize the loss during transportation of fruits?
- Write a note on conservation of germplasm.
- Give an account on post-harvest diseases.
- 4. Answer the following: (any three)

10×3=30

Horticulture. What are its Define branches? How Horticultural practices can provide employment opportunities?

2+5+3=10

- Write about the salient features, botany (b) and uses of Tagetes sp. 2+5+3=10
- Give an account on management and marketing approaches of vegetables and fruit crops in India. 5+5=10
- What is manure? What are its types? (d) Explain how manure can enhance the soil fertility and crop productivity.

1+4+5=10

- Describe about the different methods (e) applied in horticulture to control weeds.
- Explain how the different nutritional (f) management practices can reduce the mineral deficiency diseases in horticultural crops.
- Discuss the characteristic features of (g)Mughal gardens and Japanese gardens. 5+5=10
- What is IPR? What are its types? How (h) helps in conservation IPR management of economically important crops in Indian agriculture? 1+2+7=10