3 (Sem-5/CBCS) BOT HE 2

2024

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 (All are compulsory) : $1 \times 7 = 7$
 - (a) Which chemical is used for ripening of fruits?
 - (b) Define plant quarantine practices.
 - (c) Mention one symptom of manganese (Mn) deficiency in crop.

- (d) Zea mays belongs to ____ family.

 (Fill in the blank)
- (e) Bonsai is the art of growing trees proportionately in small containers.

 (True/False)
- (f) What do you mean by Asexual propagation?
- (g) Give one example from each of biofertilizers and biopesticides.
- 2. Write in brief about (All are compulsory): 2×4=8
 - (a) Avenues, mentioning the differences between parks and avenues
 - (b) PGRs
 - (c) Patents
 - (d) Irradiation of Food
- 3. Answer the following: (any three) $5 \times 3 = 15$
 - (a) Write the scientific name, salient features and uses of Tuberose.
 - (b) How do micropropagation and tissue culture techniques help in biodiversity conservation?

- (c) Give an account on management and marketing approaches of vegetable in India.
- (d) How horticultural practices can provide employment opportunities? Explain.
- (e) Different nutritional management practices can reduce the mineral deficiency diseases in horticultural crops. Explain.
- 4. Answer the following: (any three) $10 \times 3 = 30$
 - (a) Explain about documentation and conservation of germplasm. 5+5=10
 - (b) What do you mean by IPM? Write the principles and elements of an IPM Program. 2+3+5=10
 - (c) What is manure? What are its types? How organic manure can enhance the soil fertility and crop productivity?

- (d) Food safety is an important scientific discipline. Justify.
- (e) Define IPR, What are its types? How does IPR help in conservation and management of economically important crops? Explain. 1+2+7=10
- (f) Describe about the different methods applied in horticulture to control weeds.

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