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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? *ethylene*

(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) 5×3=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)
10×3=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?
1+4+5=10

(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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