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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?
- (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. 10
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