

Total number of printed pages-3

3 (Sem-5/CBCS) BOT HE 2

2025

BOTANY

(Honours Elective)

Paper : BOT-HE-5026

*(Horticulture Practices and Post-Harvest
Technology)*

Full Marks : 60

Time : Three hours

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

1. Answer the following questions in brief :

1×7=7

(a) What is the origin of banana crop ?

(b) What is 'crop sanitation' ?

(c) What is 'starter culture' ?

- (d) Which PGR is involved in regulating dormancy in seeds ?
- (e) Write the botanical name of 'Gulmohar'.
- (f) Define 'ecotourism'.
- (g) What is 'Hydroponics' ?

2. Answer the following questions : $2 \times 4 = 8$

- (a) What is cryopreservation ?
- (b) Differences between furrow and border irrigation.
- (c) What is micropropagation in plant tissue culture ?
- (d) What is Integrated Pest Management (IPM) ?

3. Write short notes on : *(any three)*

$5 \times 3 = 15$

- (a) Quarantine practices
- (b) Prospects of Floriculture in India
- (c) Mughal garden
- (d) Bonsai
- (e) Importance of food security in society

4. Answer the following : *(any three)*

10×3=30

- (a) Discuss the important methods of Germplasm conservation. State the important features of plant genetic resources. 6+4=10
- (b) Describe the importance of different post-harvest technologies in horticultural crops.
- (c) What is IPR (Intellectual Property Rights) ? Mention how IPR is helpful in safeguarding the conservation and management of horticultural crops with reference to India. 2+8=10
- (d) Discuss the management and marketing approaches of vegetable and fruit crops. 5+5=10
- (e) Describe the advantages and disadvantages of food irradiation. What are the new regulations on food irradiation processing in India ? 4+4+2=10
- (f) Discuss the role of horticulture in rural economy and employment generation in Assam. 5+5=10

800