

Total number of printed pages-4

3 (Sem-5/CBCS) BOT HE 2

2021

(Held in 2022)

BOTANY

(Honours Elective)

Paper : BOT-HE-5026

**(Horticulture 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.**

GROUP-A

Marks : 30

1. Answer the following questions in brief :
1×7=7

(a) What is 'Hydroponics' ?

Contd.

- (b) Define 'ecotourism'.
- (c) Write the botanical name of 'Gulmohar'.
- (d) Which PGR is involved in regulating dormancy in seeds ?
- (e) What is 'starter culture' ?
- (f) What is 'crop sanitation' ?
- (g) What is the origin of banana crop ?

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

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

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

$5 \times 3 = 15$

- (a) Importance of food security in society
- (b) Bonsai
- (c) Mughal garden

- (d) Prospects of Floriculture in India
- (e) Quarantine practices.

GROUP-B

Marks : 30

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

$10 \times 3 = 30$

- (a) Discuss the role of horticulture in rural economy and employment generation in Assam. $5 + 5 = 10$
- (b) Describe the advantages and disadvantages of food irradiation. What are the new regulations on food irradiation processing in India ? $4 + 4 + 2 = 10$
- (c) Discuss the management and marketing approaches of vegetable and fruit crops. $5 + 5 = 10$
- (d) What is IPR (Intellectual Property Rights) ? Mention how IPR is helpful in safeguarding the conservation and management of horticultural crops with reference to India. $2 + 8 = 10$

- (e) Describe the importance of different post-harvest technologies in horticultural crops. 10
- (f) Discuss the important methods of Germplasm conservation. State the important features of plant genetic resources. 6+4=10