

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*)

10×3=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