3 (Sem-5/CBCS) BOT HE 2

2021 di 70 mandeb

which field is hardward in regulation

(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: $1 \times 7 = 7$
 - (a) What is 'Hydroponics'?

- (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: $2\times4=8$
 - (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)

 5×3=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.
- (f) Discuss the important methods of Germplasm conservation. State the important features of plant genetic resources. 6+4=10

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