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3 (Sem-5/CBCS) BOT HE 2

2023

BOTANY

(Honours Elective)

Paper : BOT-HE- 5026

**(Horticultural 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 as directed :
(all are compulsory) 1×7=7
- (a) Define Arboriculture
 - (b) Mention the botanical name of an perennial plant.
 - (c) Banana (*Musa* sp) is indigenous to _____
(Fill in the blank)
 - (d) What is the full form of INM ?

Contd.

- (e) *Rhizobium* is a non-symbiotic nitrogen fixing bacteria. (State True or False)
- (f) What is the causal organism of anthracnose disease in mango ?
- (g) What is crop sanitation ?

2. Answer the following :

(all are compulsory) $2 \times 4 = 8$

- (a) Mention two economic importance of *Polianthus tuberosa*.
- (b) What is vertical farming ?
- (c) Write the symptoms of nitrogen deficiency in crop.
- (d) What is green manure ? Mention its two advantages.

3. Answer the following : (any three)

$5 \times 3 = 15$

- (a) Define ecotourism. Write the principles of sustainable ecotourism.
- (b) What is IPM ? Give an account on the principles of IPM.
- (c) Define germplasm. Mention the specific methods of germplasm conservation.

(d) What are plant growth regulators ? Give *four* examples. Mention the physiological effect of Auxin on plant.

(e) Write a note on urban forestry mentioning its benefits.

4. Answer the following :

(a) Define Horticulture. Mention its importance. Discuss the role of horticulture in rural economy and employment generation in Assam.

$$1+2+3\frac{1}{2}+3\frac{1}{2}=10$$

Or

Give an account on importance and scope of fruits and vegetable preservation.

$$5+5=10$$

(b) Define biofertilizer. Give some examples of bacterial, fungal and algal biofertilizers. Describe how biofertilizers are applied. Also mention its advantages.

$$1+3+3+3=10$$

Or

What is flower show ? Write the importance of flower shows and exhibitions. Also give an account on Indian flower shows.

$$1+4+5=10$$

- (c) Give an account on principles and methods of preservation and processing of food. 5+5=10

Or

Describe the importance of different post-harvest technologies in horticultural crops. 10