

2020

BOTANY — HONOURS

Paper : DSE-B-2

(Horticultural Practices and Post Harvest Technology)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer **any five** of the following :

- (a) What is peri urban horticulture? Name two different branches of horticulture. 1+1
- (b) Where did the art of Bonsai originate from? Name two Bonsai styles. 2
- (c) What is hydroponic system? Mention the ideal temperature in hydroponic system. 1+1
- (d) Mention the significance of crop sanitation. 2
- (e) Write the scientific names of gulmohor and coral tree. 2
- (f) Write the scientific names of two common insect pests of brinjal. 2
- (g) What is germplasm conservation? Distinguish between a variety and a cultivar. 1+1
- (h) What are the horticultural varieties of mango in West Bengal? 2

2. Answer **any two** of the following :

- (a) Mention the principles of food preservation and advantages of food irradiation in post harvest technology. 3+2
- (b) Describe with example the role of tissue culture in conservation and maintenance of elite horticultural crops. 5
- (c) Write a note on importance of flower exhibitions in the society (horticulture). 5

3. Answer **any three** of the following :

- (a) Throw light on Integrated Pest Management of vegetable crops of India. Enumerate some post harvest diseases of ornamental fruit crops. 6+4
- (b) Write the salient features to identify the following plants : 2×5
 - (i) Rose
 - (ii) Gladiolus
 - (iii) Gerberas
 - (iv) Succulents
 - (v) Orchids.

Please Turn Over

- (c) What do you mean by landscape gardening? Describe the principles of landscape designing. 4+6
- (d) (i) What are the methods followed during storage and transportation of vegetables and fruits?
(ii) What is IPR? Discuss the IPR issues in trade and commerce of horticultural crops. 5+5
- (e) What is urban eco-tourism? How will you prefer it over natural eco-tourism? What is 'Miyawaki' method of urban forest? 3+5+2
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