

**2021**

**BOTANY — HONOURS**

**Paper : DSE-B-6**

**(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 :

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|-----------------------------------------------------------------------------------------------|-----|
| (a) What is olericulture? Name two types of urban horticulture.                               | 1+1 |
| (b) Define Eco-tourism.                                                                       | 2   |
| (c) Write the scientific names of tuberose and fishtail plant.                                | 1+1 |
| (d) Write the full form of ISHS.                                                              | 2   |
| (e) What is floriculture? Write the scientific names of two cut flowers used in floriculture. | 1+1 |
| (f) What is bonsai in floriculture?                                                           | 2   |
| (g) What is crop sanitization? Write down the full form of IPM.                               | 1+1 |
| (h) Why micropropagation is the rapid method of multiplication of plants in horticulture?     | 2   |

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

- |                                                                                                                                                         |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| (a) Write the salient features to identify the following plants :                                                                                       |      |
| (i) Poppies                                                                                                                                             |      |
| (ii) Sages.                                                                                                                                             | 2½×2 |
| (b) Write a brief note on surface irrigation method. What are the advantages of green manure and fertilizers in application of horticulture techniques? | 3+2  |
| (c) Discuss briefly about lay out of Formal types of gardens with examples.                                                                             | 5    |

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

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| (a) (i) Write a short note on management and marketing of vegetables and fruit crops.                                                                                           |           |
| (ii) Mention two identifying characters of the following fruits and vegetable varieties :<br>Banana, Mango and Chillis.                                                         | 4+(2+2+2) |
| (b) Discuss the role of plant growth regulators (PGRs) in Horticultural techniques. How biofertilizers and biopesticides application help in improving horticultural practices? | 4+(3+3)   |

**Please Turn Over**

- (c) Write a short note on food safety in post harvest technology. How post harvest handling affects the quality of horticultural crops? How can we reduce post harvest losses of fruits and vegetables? What is food irradiation? 4+2+2+2
- (d) Discuss on quarantine practices in disease control and management. How to identify the deficiency symptoms and incorporate the remedial measures with nutritional management practices for disease control?  $(2\frac{1}{2}+2\frac{1}{2})+(2\frac{1}{2}+2\frac{1}{2})$
- (e) (i) Briefly discuss on documentation and conservation of germplasm for horticultural crops.  
(ii) Comment on national, international and professional societies of horticulture.  $(2+3)+5$
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