



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 5th Semester Examination, 2021-22

**BOTADSE02T-BOTANY (DSE1/2)**

**HORTICULTURAL PRACTICES AND POST-HARVEST TECHNOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words as far as practicable  
All symbols are of usual significance.*

1. Answer **all** the following questions briefly: 1×16 = 16
- What is pruning?
  - Name a perennial ornamental climber.
  - Define biopesticide. Give example.
  - What is food irradiation?
  - Name the causal organism of postharvest fruit rot.
  - Define biofertilizer with example.
  - What is quarantine?
  - What is olericulture?
  - Write the importance of bonsai.
  - Mention different asexual propagation methods of plants.
  - What is tertiary food processing?
  - Write the importance of cut flower.
  - 'Kishen Bhog' is the variety of which fruit?
  - Write the features of urban horticulture.
  - What are different traits of quality of fruits?
  - Define crop sanitation.
2. Answer any **eight** questions from the following: 3×8 = 24
- Differentiate between food and nutrition. Discuss the role of horticulture in food and nutrition security. 1+2
  - What is drip irrigation? Discuss its benefits. 1+2

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| (c) Discuss different types of sexual and asexual propagation methods used in horticulture.            | 3   |
| (d) Mention the importance of food preservation. What are the primary principles of food preservation? | 1+2 |
| (e) What is germplasm? Mention different methods of germplasm conservation.                            | 1+2 |
| (f) Discuss the key principles of 'bonsai' aesthetics.   | 3   |
| (g) What is biological control of plant diseases? Mention its role in IPM.                             | 1+2 |
| (h) What is urban forestry? Mention its benefits.  | 1+2 |
| (i) Discuss the role of postharvest technology in maintaining quality of the crops.                    | 3   |
| (j) Discuss the non-direct marketing practices of fruit and vegetable crops.                           | 3   |
| (k) What is crop rotation? How it benefits in controlling diseases of crops?                           | 1+2 |
| (l) Mention the methods used to minimize losses after harvesting the crops.                            | 3   |

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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