



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
- (a) What is pruning?
 - (b) Name a perennial ornamental climber.
 - (c) Define biopesticide. Give example.
 - (d) What is food irradiation?
 - (e) Name the causal organism of postharvest fruit rot.
 - (f) Define biofertilizer with example.
 - (g) What is quarantine?
 - (h) What is olericulture?
 - (i) Write the importance of bonsai.
 - (j) Mention different asexual propagation methods of plants.
 - (k) What is tertiary food processing?
 - (l) Write the importance of cut flower.
 - (m) 'Kishen Bhog' is the variety of which fruit?
 - (n) Write the features of urban horticulture.
 - (o) What are different traits of quality of fruits?
 - (p) Define crop sanitation.
2. Answer any **eight** questions from the following: 3×8 = 24
- (a) Differentiate between food and nutrition. Discuss the role of horticulture in food and nutrition security. 1+2
 - (b) 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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