

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: II (New)	Term	: Second	Academic Year	: 2021-22
Course No.	: H/FS 122	Title	: Plant Propagation and Nursery Management		
Credits	: 2 (1+1)				
Day & Date	: Tuesday, 13.09.2022	Time	: 9:00 to 11:00 hrs.	Compulsory Marks	: 40

- Note :**
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 What is plant propagation? Enlist the methods of plant propagation and write the advantages and disadvantages of asexual propagation.
- Q.2 What is seed dormancy? Describe in brief treatments used for breaking seed dormancy.
- Q.3 Enlist different methods of grafting. Describe in detail 'stone grafting' with example.
- Q.4 Describe various structures used for plant propagation.
- Q.5 What is sexual propagation? Describe in brief its advantages and disadvantages.
- Q.6 Define apomixis. Describe various types of apomixis and its significance in horticulture.
- Q.7 Write short notes on (Any Two):
- a) Shield budding
 - b) Chimera
 - c) Effects of hardening
- Q.8 Define plant growth regulators and give its use in plant propagation with example.
- Q.9 Define micropropagation. Write its advantages and disadvantages.
- Q.10 Explain the criteria for selection and maintenance of mother tree in plant propagation.

SECTION 'B'

- Q.11 Define the following terms:

- | | |
|-----------------|-----------------------------|
| 1) Corm | 2) Stock-scion relationship |
| 3) Polyembryony | 4) Rootstock |

- Q.12 Match the pairs:

'A'

- 1) Air layering
- 2) Bulb
- 3) Corm
- 4) Shield budding

'B'

- a) Sweet orange
- b) Pomegranate
- c) Tuberose
- d) Gladiolus

