

22399

24225

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Figures to the right indicate full marks.
 - (3) Assume suitable data, if necessary.
 - (4) Use of Non-programmable Electronic Pocket Calculator is permissible.

Marks

1. Attempt any FIVE of the following :

10

- (a) Define soil structure.
- (b) State the different components of egg.
- (c) State any two principles of tillage.
- (d) State four advantages of asexual propagation.
- (e) Enlist different methods of grafting.
- (f) Define Floriculture.
- (g) Define Silo and its different types.

2. Attempt any THREE of the following :

12

- (a) Describe soil forming process.
- (b) Explain particle size distribution of soil.
- (c) Explain classification of soil.
- (d) Explain any two methods used to determine the quality of soil.



- 3. Attempt any THREE of the following : 12**
- (a) Compare Sexual propagation and Asexual propagation.
 - (b) Write the advantages of micro and macro propagation.
 - (c) List the different plant propagation methods. Explain any one method in detail.
 - (d) Explain micro propagation process in detail.
- 4. Attempt any THREE of the following : 12**
- (a) Explain in detail subsoiling tillage operation.
 - (b) Explain the principles of weed control.
 - (c) Describe deep tillage in detail.
 - (d) Explain factors influencing preparatory in tillage operation.
 - (e) Give classification of horticultural plants.
- 5. Attempt any TWO of the following : 12**
- (a) Describe the scope and importance of horticultural crops.
 - (b) Describe any three branches of horticulture.
 - (c) Write soil and climatic conditions required for coconut plant.
- 6. Attempt any TWO of the following : 12**
- (a) List different types of cropping system. Explain any one in detail.
 - (b) Explain the classification of crops based on soil and weather.
 - (c) Define Cropping pattern. Differentiate between Cropping system and Cropping pattern with suitable example.
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