

22399

22232

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) Give any four principles of tillage.
- (b) Define soil structure.
- (c) State four advantages of sexual propagation.
- (d) Enlist any four methods of grafting.
- (e) State importance of livestock in India (4 points).
- (f) Define Silo.
- (g) Define floriculture.

2. Attempt any THREE of the following :

12

- (a) Define rocks. Explain types of rocks.
- (b) Define soil minerals. State the importance of minerals in soil.
- (c) Enlist physical properties of soil. Explain any two.
- (d) Enlist types of soil structures. Explain any two.



- 3. Attempt any THREE of the following : 12**
- (a) Describe the advantages of micro and macro propagation.
 - (b) Differentiate between sexual propagation and asexual propagation (any four points each).
 - (c) Explain budding and two types of budding.
 - (d) State any eight site selection criteria for nursery management of vegetable crops.
- 4. Attempt any THREE of the following : 12**
- (a) Explain factors influencing preparatory in tillage operation.
 - (b) Explain deep tillage and sub-soiling tillage in detail.
 - (c) Describe the principles of weed control.
 - (d) State any four agricultural work tools along with its functions.
 - (e) Describe any two branches of horticulture.
- 5. Attempt any TWO of the following : 12**
- (a) Write the soil and climatic conditions required for Mango fruit in horticultural crops.
 - (b) State the scope and importance of horticultural crops.
 - (c) Classify the horticultural plants.
- 6. Attempt any TWO of the following : 12**
- (a) Explain Cropping system and any four types of cropping system.
 - (b) Describe cropping pattern. Explain intercropping along with its types and advantages.
 - (c) Classify the crops on the basis of season, soil and weather.
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