

22399

23124

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
  - (2) Answer each next main Question on a new page.
  - (3) Illustrate your answers with neat sketches wherever necessary.
  - (4) Figures to the right indicate full marks.

**Marks**

**1. Attempt any FIVE :**

**10**

- (a) Define soil structure.
- (b) Give importance of livestock.
- (c) Define Tillage.
- (d) Enlist any four methods of grafting.
- (e) Define budding process.
- (f) Define Floriculture.
- (g) Define Silo and its different types.

**2. Attempt any THREE :**

**12**

- (a) Define soil minerals. State the importance of minerals in soil.
- (b) Explain Particle Size Distribution of soil.
- (c) Describe soil forming process.
- (d) Explain any four physical properties of soil.



- 3. Attempt any THREE :** **12**
- (a) Explain nursery raising techniques.
  - (b) Differentiate between sexual propagation and asexual propagation.
  - (c) List the different plant propagation methods. Explain any one method in detail.
  - (d) Explain the advantages of micro and macro propagation.
- 4. Attempt any THREE :** **12**
- (a) Explain factors influencing preparatory in tillage operation.
  - (b) Explain in detail subsoiling tillage operation.
  - (c) Explain in detail crop rotation.
  - (d) Explain any two methods of weed control.
  - (e) Give classification of horticultural plants.
- 5. Attempt any TWO :** **12**
- (a) Describe any two branches of horticulture in detail.
  - (b) Explain the scope and importance of horticultural crops.
  - (c) Explain climatic requirement for horticulture crops.
- 6. Attempt any TWO :** **12**
- (a) Classify and explain crops based on soil and weather.
  - (b) Define cropping pattern. Differentiate between Cropping System and Cropping Pattern with suitable example.
  - (c) Explain any two cropping system in detail.
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