

22399

12425

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.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

10

- (a) Enlist factors affecting soil formation.
- (b) State importance of livestock in India (4 points).
- (c) Define soil structure.
- (d) Enlist different types of Silo used in agricultural storage.
- (e) Enlist any four methods of grafting.
- (f) Define Olericulture.
- (g) Define Silo.

2. Attempt any THREE of the following :

12

- (a) List physical properties of soil. Describe any two in detail.
- (b) Define rocks. Explain types of rocks.



- (c) Define soil minerals. State the importance of minerals in soil.
- (d) Explain in detail soil forming process.

3. Attempt any THREE of the following : 12

- (a) Explain micro propagation process in detail.
- (b) Describe the principles of weed control.
- (c) Explain budding and two types of budding.
- (d) Describe any two branches of horticulture.
- (e) Explain in detail nursery raising techniques.

4. Attempt any THREE of the following : 12

- (a) Compare sexual propagation and asexual propagation (any four points).
- (b) State any four agricultural work tools along with its functions.
- (c) Describe the factors influencing preparatory in tillage operation.
- (d) Explain deep tillage and sub-soiling tillage in detail.
- (e) Describe crop rotation process in detail.

5. Attempt any TWO of the following : 12

- (a) Classify the crops on the basis of season, soil and weather.
- (b) Describe the scope and importance of horticultural crops.
- (c) Classify the horticultural plants in detail.

6. Attempt any TWO of the following : 12

- (a) Explain climatic requirement for horticulture crop.
 - (b) Describe cropping pattern. Explain intercropping along with its types and advantages.
 - (c) Explain Cropping system and any four types of cropping system.
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