

17228

15116

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page..
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following:** **20**
- a) Define and give two examples of:
 - (i) Food crop
 - (ii) Cash crop
 - b) Define tillage. State objective of tillage.
 - c) Define rainfall. State types of rainfall.
 - d) Define monocropping. Explain its disadvantages.
 - e) Enlist different methods of fertilizer application.
 - f) Define fertility. How do fertility losses occur?
 - g) What are principles of crop weed competition?

P.T.O.

2. Attempt any TWO of the following: 16

- a) Explain characteristics of soyabean and paddy crop.
- b) Enlist type of tillage. Explain effects of tillage on soil structure and pore space.
- c) Explain land use classification related to Physiography.

3. Attempt any TWO of the following: 16

- a) Explain with example classification of crop based on:
 - (i) Use
 - (ii) Life of crop
- b) (i) Define tillage and explain its characteristics.
 - (ii) Name methods of sowing. Describe any one.
- c) (i) Define cropping system. Write about mixed cropping.
 - (ii) Enlist different parameters which affect plant growth and development.

4. Attempt any TWO of the following: 16

- a) (i) Explain role of water for plant growth.
 - (ii) Define evaporation and transpiration.
- b) Define water requirement of crops and explain criteria for scheduling crop irrigation.
- c) Define organic farming and sustainable agriculture. Explain component of organic farming.

5. Attempt any TWO of the following: 16

- a) Describe in brief mechanical method of weed control.
- b) (i) Describe the losses caused by weed.
(ii) State the benefits of weed.
- c) (i) Name two pests and diseases of sugarcane, with control measures.
(ii) Explain identification of root zones.

6. Attempt any TWO of the following: 16

- a) Define manures and fertilizers. Classify manures and fertilizers with examples.
 - b) (i) Explain meaning of relay cropping.
(ii) Explain meaning of multistoried cropping.
 - c) (i) Name two oil seed crops with origin and oil percentage.
(ii) Define crop rotation. Write principle of crop rotation.
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