

17228

16117

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) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(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**
- Describe a 'sowing method'.
 - Describe 'secondary tillage'.
 - Classify, types of soil.
 - Explain components of organic farming.
 - Explain functions of integrated weed management system.
 - Write influences of weed on crop production.
 - Explain scope of animal husbandry.
 - Describe a method of disease control.

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- 2. Attempt any TWO of the following:** **16**
- a) Explain with examples, classification of crops, based on:
 - (i) parts of plant used
 - (ii) economy
 - b) Describe effect of:
 - (i) humidity
 - (ii) temperature - on crops.
 - c) Explain principle of:
 - (i) mixed cropping
 - (ii) sequence cropping
- 3. Attempt any TWO of the following:** **16**
- a) Explain characteristics of:
 - (i) tith,
 - (ii) ideal seed bed
 - b) (i) Define ‘transpiration’. State factors, affecting transpiration.
(ii) Describe origin and occurrence of south-west monsoon.
 - c) (i) State losses due to weeds.
(ii) Describe a method of weed control.
- 4. Attempt any TWO of the following:** **16**
- a) (i) Explain characteristics of:
 - 1) puddy
 - 2) moong
 - (ii) What are ‘botanical’ - ‘cash’ - crops? Give two examples of each.
 - b) (i) Explain meaning of ‘depth of soil’.
(ii) Name types of clouds. Write characteristics of any one type of cloud.
 - c) Explain with examples, classification of:
 - (i) manures
 - (ii) fertilisers

5. Attempt any TWO of the following:**16**

- a) (i) Compare: soil fertility and soil productivity.
- (ii) Describe maintenance of soil fertility.
- b) Describe critical periods for weed control for different crops.
- c) Describe 'multi-storied' cropping system.

6. Attempt any FOUR of the following:**16**

- a) Explain with examples, classification of crops based on 'utility'.
 - b) Explain the terms:
 - (i) pore space
 - (ii) texture of soil
 - c) Define 'sustainable farming'. How is it related to organic farming?
 - d) Explain criteria for harvest maturity.
 - e) Describe a method of application of fertiliser.
 - f) How is fertiliser requirement for a crop, calculated?
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