

17228

14115

3 Hours / 100 Marks

Seat No.

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Instructions – (1) All Question 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.

Marks

1. Answer any FIVE of the following :

20

- a) Define and give two examples each, of :
 - (i) Economy crops
 - (ii) Cash crops
- b) State factors affecting preparatory cultivation.
- c) Name types of soil. Describe any one.
- d) (i) Define :
 - (1) Soil fertility
 - (2) Soil productivity
 - (ii) State four factors, responsible for soil fertility loss.
- e) Name four (each) :
 - (i) Sources of water
 - (ii) Characteristics of water.
- f) Distinguish between :
Monocropping and Solecropping
- g) How is fertiliser requirements for crops, calculated ?

P.T.O.

- 2. Answer any TWO of the following :** **16**
- a) Explain characteristics of –
 - (i) Ideal seed bed
 - (ii) Tilt
 - b) (i) Name components of organic farming.
 - (ii) Explain relationship of organic farming with sustainable farming.
 - c) Describe influence of weed on crop production.
- 3. Answer any TWO of the following :** **16**
- a) Describe effect of :
 - (i) Humidity on crops
 - (ii) Light on crops
 - b) (i) State losses due to weeds. 3
 - (ii) Describe a method of weed control. 5
 - c) Explain principle of :
 - (i) relay cropping
 - (ii) sequence cropping
- 4. Answer any TWO of the following :** **16**
- a) (i) Name two oil-seed crops and two methods to extract oil from them. 2
 - (ii) Explain with two examples each, three basis of crops classification. 6
 - b) Explain principle of :
 - (i) crop weed competition
 - (ii) integrated weed management
 - c) (i) Name two pests and two pesticides used for plant. 2
 - (ii) Name two diseases of plants. Describe a method of pest and disease control in plant. 6

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

- a) Describe effect of tillage on :
 - (i) Soil texture
 - (ii) Bulk density of soil
- b) (i) Name types of clouds. State characteristics of any one of them.
 - (ii) Explain criteria for harvest maturity.
- c) (i) Classify manures, giving examples. 3
 - (ii) Describe a method of applying fertiliser. 5

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

- a) (i) To which type of crops, the following belong ?
 - (1) arhar
 - (2) groundnut
 - (3) paddy
 - (4) guava
 - (ii) Name major Indian States producing :
 - (1) wheat
 - (2) moong
 - b) State characteristics of :
 - (i) any one legume crop
 - (ii) any one oil-seed crop
 - c) Explain land use classification, related to physiography
 - d) Explain origin of south-west monsoon and its occurrence.
 - e) Describe crop arrangement of field : seasonwise.
 - f) Explain meaning of :
 - (i) animal husbandry
 - (ii) poultry
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