

17228

15162

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.

Marks

1. Answer any FIVE :

5 × 4 = 20

- Define & give two examples each of (i) Food Crop (ii) Cash Crop.
- Define tillage. State objectives of tillage.
- Define rainfall. State types of rainfall.
- Define monocropping. State its disadvantages.
- Enlist different method of fertiliser application. Describe any one.
- Define fertility. How do fertility losses occur ?
- What are principles of crop weed competition ?

2. Answer any TWO :

2 × 8 = 16

- Explain characteristics of soyabean and paddy crop.
- Enlist types of tillage.
 - Explain effect of tillage on soil structure and pore space.
- Explain land use classification related to physiography.

3. Answer any TWO :

2 × 8 = 16

- Explain with examples, classification of crop based on (i) use (ii) life of crop.
- Define tith. Explain its characteristics.
 - Describe the method of sowing.

- (c) (i) Define cropping system. Describe mixed cropping.
(ii) Enlist different parameters which affect plant growth and development.
Describe effect of temperature on crop.

4. Answer any TWO : **2 × 8 = 16**

- (a) (i) Explain the role of water for plant growth. **2**
(ii) Explain the terms : evaporation and transpiration. **6**
(b) (i) Define water requirement of crop. **2**
(ii) Explain criteria for scheduling of irrigation crop. **6**
(c) (i) Define : (1) Organic farming and (2) sustainable agriculture. **2**
(ii) Explain components of organic farming. **6**

5. Answer any TWO : **2 × 8 = 16**

- (a) Describe method of weed control.
(b) (i) Explain the losses caused by weed.
(ii) State the benefits of weed.
(c) (i) Name two pests and diseases of sugarcane crop, with control measures.
(ii) Write climatic requirements of (1) Wheat, (2) Tur

6. Answer any TWO : **2 × 8 = 16**

- (a) (i) Define manure and fertilizer. **2**
(ii) Classify manures and fertilizer with examples. **6**
(b) (i) Explain meaning of relay cropping. **4**
(ii) Explain meaning multistoryed cropping. **4**
(c) (i) Name two oilseed crops with origin and oil percentage.
(ii) Define crop rotation and give principle of crop rotation.
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