

17677

21415

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) 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) Write about different agro-climatic zones in India.
- b) Write site-selection criteria for Greenhouse.
- c) Differentiate : ‘Flooding and leaching’.
- d) Explain the term ‘Shading’ in relation to Greenhouse environment.
- e) State rules of watering.
- f) Explain necessity of controlling temperature in Greenhouse.
- g) Describe ‘Farm fencing’. State its purpose.

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

- a) Explain use of construction materials :
 - (i) wood
 - (ii) glassfor Greenhouse.
- b) Explain the meaning and describe the process of ‘micro-irrigation.’
- c) Describe and explain use of, any one type of ventilator.

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- 3. Attempt any TWO of the following :** **16**
- a) Describe the process of soil pasteurisation in moss/cockpit.
 - b) Describe evaporative cooking, through :
 - (i) High pressure mist system,
 - (ii) Low pressure mist system.
 - c) (i) Write criteria for location selection of a farm stead.
(ii) Name types of farm steads. Describe any one of these.
- 4. Attempt any TWO of the following :** **16**
- a) Explain Indian situation : present and future; as regards greenhouse effect.
 - b) Describe interaction of light, temperature and humidity; in relation to greenhouse environment.
 - c) (i) Explain purpose of maintenance of a poultry house.
(ii) Write constructional features of a 'cage house'.
- 5. Attempt any TWO of the following :** **16**
- a) Explain with examples, classification of greenhouses; on the basis of :
 - (i) Shape
 - (ii) Glazing materials
 - b) (i) Name types of soil
(ii) Describe any two types of soil
 - c) In relation to greenhouse irrigation :
 - (i) Describe method of perimeter watering.
 - (ii) Explain use of 'overhead sprinklers.'

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

- a) Write features of 'lowcost greenhouse'.
 - b) Explain properties of 'root media'.
 - c) Describe 'forced-cooling' technique.
 - d) Describe a method of controlling temperature in green house.
 - e) State advantages and limitations of 'hand-watering' system.
 - f) Describe typical water supply system, for dairy barns.
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