

17677

11819

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(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 greenhouse and explain in brief greenhouse effect.
 - b) Enlist and describe in brief environmental factors affecting plant growth.
 - c) Explain in brief classification of greenhouse based on shape.
 - d) Describe in brief orientation of greenhouse.
 - e) Give merits of micro - irrigation system.
 - f) Enlist various properties of root media.
 - g) Give types of growth media and enlist chemical properties of growth media.

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- 2. Attempt any TWO of the following: 16**
- a) Explain, how soil pasteurization in moss / coco peat and mixtures in done.
 - b) Explain in detail greenhouse heating.
 - c) Describe main points to be considered for fan and pad cooling system.
- 3. Attempt any TWO of the following: 16**
- a) Describe with a neat labelled diagram drip irrigation system.
 - b) Explain 'Perimeter watering' and 'Boom watering' in detail.
 - c) Explain various rules of watering in the greenhouse.
- 4. Attempt any TWO of the following: 16**
- a) Explain classification of greenhouse on the basis of covering material.
 - b) Explain the following types of structures :
 - (i) Poly tunnels
 - (ii) Glass house
 - c) State different types of poultry houses and explain any one in detail.

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

- a) Explain the following:
 - (i) High pressure mist system.
 - (ii) Low pressure mist system.
- b) Describe ventilation with roof and side ventilators in detail.
- c) Explain the importance of sanitation in poultry houses and dairy barns.

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

- a) Describe different agro-climatic zones in India.
 - b) Explain different types of ventilation.
 - c) Explain the importance of fertigation.
 - d) Give the criteria for selecting the site for locating the farmstead.
 - e) Describe in brief stanchan barn.
 - f) Explain 'Greenhouse Shading'.
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