

17677

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.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Answer any FIVE of the following: **20****
- Name environmental factors, that affect plant growth.
 - How is low cost green house developed?
 - Define 'root media'. State its properties.
 - Explain purpose of 'Shading' in relation to green house.
 - Distinguish : low pressure and high pressure mist system.
 - Describe drip irrigation system.
 - Explain purpose of farm fencing.

P.T.O.

- 2. Answer any TWO of the following:** **16**
- a) Explain classification of green house, on the basis of:
- (i) shape
 - (ii) glazing material
- b) Describe w.r.t. green house:
- (i) heating
 - (ii) forced cooling technique
- c) (i) State limitations of hand watering. 2
- (ii) Explain use of overhead sprinklers. 6
- 3. Answer any TWO of the following:** **16**
- a) (i) Name green house construction materials. 2
- (ii) Explain characteristics of any two materials 6
- b) Explain effects of humidity, water on crop regulation.
- c) Explain rules of watering.
- 4. Answer any TWO of the following:** **16**
- a) (i) Name different agro-climatic zones in India. Describe any one.
- (ii) Describe present Indian Scenario of green house.
- b) (i) Describe flooding and leaching. 6
- (ii) State their effects. 2
- c) Describe and explain working of an equipment required for heating and controlling temperature in green house.

- 5. Answer any TWO of the following:** **16**
- a) (i) Name types of soils. **2**
 - (ii) Write characteristics of any two. **6**
 - b) Describe fan and pad system. Explain its working.
 - c) (i) Explain location criteria for farm steads.
 - (ii) Describe any one type of farm stead.
- 6. Answer any FOUR of the following:** **16**
- a) What are poly tunnels? Explain their use.
 - b) Explain properties of rock wool. State its use.
 - c) Explain concepts of micro-irrigation.
 - d) Differentiate : side ventilation and roof ventilation.
 - e) Describe sanitary system for dairy barns.
 - f) Describe broader type, poultry house.
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