17677

16172 3 Hours / 100 Marks Seat No. 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** Explain present world scenerio, in relation to greenhouse. Describe poly tunnels. b) Classify greenhouse, on the basis of its shape. What is 'rock wool'? State its properties. Define 'growth media'. State properties of 'root media'. e) Name 'glazing' materials. State characteristics of any one. f) Explain principle of overhead sprinklers. 2. 16 Attempt any TWO of the following: (i) State desirable properties of glass, as used for greenhouse. a) (ii) Name types of soil. Describe any one. Explain necessity of greenhouse heating. 3 b) (i) Describe a method of controlling temperature in (ii) 5 greenhouse. c) (i) Explain location criteria of farm stead. Name types of farm stead. Describe any one. (ii)

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3.		Attempt any TWO of the following:	16
	a)	Explain site-selection and orientation aspects for green-house.	
	b)	Describe interaction of humidity and water on crop regulation.	
	c)	Explain the method of perimeter watering.	
4.		Attempt any TWO of the following:	16
	a)	Describe process of:	
		(i) flooding,	
		(ii) leaching	
	b)	Describe an equipment used for heating and controlling greenhouse temperature. Describe its working.	
	c)	(i) Explain need of farm-fencing.	3
		(ii) Write constructional features of a "cafe house".	5
5.		Attempt any TWO of the following:	16
	a)	(i) State different agro - climatic zones in India.	
		(ii) What is green house effect. State the advantages of it.	
	b)	(i) Describe greenhouse heating.	
		(ii) Explain 'forced-cooling' technique.	
	c)	Describe typical water supply and sanitation system for poultry houses.	
6.		Attempt any FOUR of the following:	16
	a)	Describe design of a low cost greenhouse.	
	b)	Explain any two chemical properties of growth media.	
	c)	How do 'micro-irrigation' differ from conventional irrigation?	
	d)	Explain working of a side-ventilator.	
	e)	State rules of watering.	
	f)	Describe drip-irrigation system.	