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B.TECH.**(SEM-V) THEORY EXAMINATION 2020-21****PRECISION FARMING TECHNIQUES FOR PROTECTED CULTIVATION****Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

a.	n?
b.	Define Relative humidity.
c.	Explain green house effect.
d.	Write short notes on cladding material.
e.	Explain the term evaporative cooling.
f.	Write different types of irrigation system.
g.	What do you mean by green house heating?
h.	Explain fogging system.
i.	Write short notes on fertilizer management
j.	Write automated fertilizer application.

SECTION B**2. Attempt any three of the following:****10 x 3 = 30**

a.	Explain different types of green houses & also components of green house.
b.	Write design for ventilation requirement using exhaust fan system also write selection of equipment
c.	What do you mean by combined fogging and fan-pad cooling system, explain in detail?
d.	Explain planting techniques in green house cultivation.
e.	i) Explain Selection of crops for greenhouse cultivation. (ii) Insect and disease management in greenhouse and net houses

SECTION C**3. Attempt any one part of the following:****10 x 1 = 10**

(a)	Explain principles of limiting factors, solar radiation & transpiration.
(b)	Write short notes on (i) Maintenance of irrigation and fogging systems (ii) Nutrient deficiency symptoms in fertilization.

4. Attempt any one part of the following:**10 x 1 = 10**

(a)	Explain Design and construction of green houses for site selection, orientation
(b)	scheduling?

5. Attempt any one part of the following:**10 x 1 = 10**

(a)	ventilation with roof and side ventilators
(b)	Explain design of fogging system for greenhouses & net house with requirement.

6. Attempt any one part of the following:**10 x 1 = 10**

(a)	Explain design of heating system. Also explain different method adopt for heating system.
(b)	What do you mean by Root media? Explain soil & soil less media.

7. Attempt any one part of the following:**10 x 1 = 10**

(a)	Explain Irrigation in greenhouse and net house. Also explain types of irrigation system.
(b)	Explain major crops in greenhouse with irrigation requirement, fertilizer management and cultivation