MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: IV (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: H/VS 244	Title	: Precision Farming and Protected Cultivation		
Credits	: 3 (2+1)				
Day & Date	: Friday, 14.07.2023	Time	: 09:00 to 12:00 hrs.	Total marks	: 80

Note : 1. Solve **ANY EIGHT** questions from **SECTION 'A'.**
2. All questions from **SECTION 'B'** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagram wherever necessary.

SECTION 'A'

Q.1 Enlist different types of greenhouse and explain any two in detail.

Q.2 What is the need of greenhouse cooling? Explain any two of them.

Q.3 Describe in short greenhouse cultivation of Capsicum on the followin[illegible]nts:

a) Nursery b) Varieties

c) Training and pruning d) Harvesting and yield

Q.4 Explain cultivation of Cucumber in greenhouse on the following points:

a) Temperature and light b) Selection of cultivars and pollination

c) Fruit thinning d) Harvesting and yield

Q.5 Describe in brief production of Tomato in net house on the following points:

a) Improved varieties b) Training and pruning

c) Harvesting and yield d) Disease and pest management

Q.6 Enlist different growing media used in protected cultivation. Explain any four of them.

Q.7 Enlist different protected structures and explain any two of them.

Q.8 Write short notes on (Any Two):

a) Types of design of protected structure

b) Construction of greenhouse for vegetable cultivation

c) Vegetable seedling production under control

Q.9 Define precision farming. Discuss in brief importance and scope of precision farming.

Q.10 Write short notes on (Any Two):

a) Variability management based on site specific inputs application

b) Precision management for diseases, insect pest and weed management

c) Nutrient Film Technique (NFT)

(P.T.O.)

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SECTION 'B'

Q.11 Match the pairs:

'A'	'B'
1) GIS	a) Palam Samridhi
2) Hydroponics	b) HDPE
3) Broccoli	c) Physical impurities
4) Cherry tomato	d) *Cucurbita pepo*
5) Zucchini	e) Sweet 100
6) Sand filter	f) Partially controlled
7) Fish paper	g) Growing plant without soil
8) Greenhouse-2	h) Geographic Information System

Q.12 Define the following terms:

1) Aeroponics
2) Microirrigation
3) Greenhouse effect
4) Evapotranspiration
5) Evaporative pad
6) Off season nursery
7) Controlled environment
8) Fogging

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