

Total No. of Questions: 6

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Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec 2024
AG3EL07 Protected Cultivation

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

		Marks	BL	PO	CO	PSO
Q.1	i. What accounts for the increased yield in protected cultivation compared to other methods?	1	2	1	2	
	(a) High photosynthesis efficiency					
	(b) Maintain temperature					
	(c) High CO ₂					
	(d) Maintain relative humidity					
	ii. Modification of the natural environment to achieve optimum plant growth is known as:	1	1	1	2	
	(a) Protected cultivation					
	(b) Sustainable agriculture					
	(c) Hydroponics					
	(d) Green house cultivation					
	iii. The main goal of cultivating vegetables in a greenhouse is to achieve what?	1	2	1	3	
	(a) To get early yield					
	(b) To get off season yield					
	(c) To protect the crop from disease					
	(c) To protect the crop from excessive rains					
	iv. Soil-less media commonly used in greenhouse is-	1	1	1	2	
	(a) Cocopeat					
	(b) Perlite					
	(c) Vermiculite					
	(d) None of these					

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v.	In drip irrigation system, fertigation is done by-	1	1	1	2
	(a) Hydrocyanine				
	(b) Venchuri				
	(c) Application of soluble fertilizers near hydrogel				
	(d) All of these				
vi.	Application of fertilizer through irrigation is called as _____.	1	1	1	2
	(a) Herbivore				
	(b) Herbigation				
	(c) Fertigation				
	(d) Fungigation				
vii.	Which is most popular variety of roses in protected cultivation in India?	1	1	1	3
	(a) Grand gala				
	(b) Konfetti				
	(c) First red				
	(d) All of these				
viii.	The fruit crop grown commercially in protected structures in India is:	1	1	1	2
	(a) Strawberry				
	(b) Cherry				
	(c) Avocado				
	(d) Pear				
ix.	Central institute of medical and aromatic plants is situated at:	1	1	1	2
	(a) Hissar				
	(b) Jhansi				
	(c) Bangalore				
	(d) Lucknow				
x.	<i>Plantago ovate</i> is the botanical name of ____.	1	1	1	1
	(a) Safed musli				
	(b) Cassia				
	(c) Devana				
	(d) Isabgol				
Q.2	i. Write the name of crops grown under protected cultivation.	1	1	1	1
	ii. Write the two main objectives of protected cultivation.	2	1	1	1
	iii. Write important criteria for site selection in protected cultivation.	5	1	1	2
OR	iv. Describe the scope of protected cultivation in India.	5	2	1	2

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Q.3	i. What is greenhouse effect?	1	1	1	1
	ii. What are the factors to be considered in site selection of greenhouses?	3	1	1	2
	iii. Explain in detail the components of greenhouse structure.	4	2	1	2
OR	iv. Classify the greenhouses according to different criteria.	4	3	1	2
Q.4	i. What is benching?	2	1	1	1
	ii. Enlist the different components of drip irrigation system.	6	1	1	2
OR	iii. Write the short note on the following- (a) Net house (b) Propagation frames	6	2	1	3
Q.5	i. Write the varieties/cultivars name of Tomato.	2	1	1	1
	ii. Write the any two importances of pot plants and containers.	2	1	1	2
	iii. Describe about the greenhouse cultivation of rose.	4	2	1	3
OR	iv. Describe post-harvest management of Chrysanthemum.	4	2	1	2
Q.6	Attempt any two:				
	i. Describe off-season production of flowers with suitable examples.	4	2	1	1
	ii. Explain about the economically important medicinal plants of polyhouse cultivation.	4	2	1	2
	iii. Write the advantages of off-season vegetable production in polyhouse.	4	1	1	3

Marking Scheme**AG3EL07 (T) Protected Cultivation (T)**

Q.1	i)	(a) High photosynthesis efficiency	1
	ii)	(a) Protected cultivation	1
	iii)	(b) To get off season yield	1
	iv)	(a) Cocopeat	1
	v)	(b) Venchuri	1
	vi)	(c) Fertigation	1
	vii)	(c) First red	1
	viii)	(a) Strawberry	1
	ix)	(d) Lucknow	1
	x)	(d) Isabgol	1
Q.2	i.	Write the name of crops grown under protected cultivation. crop names any two = 1 mark	1
	ii.	Write the two main objectives of protected cultivation. 2 objectives = 2 marks	2
	iii.	Write important criteria for site selection in protected cultivation. criteria = 5 marks	5
OR	iv.	Describe the scope of protected cultivation in India. various scopes = 5 marks	5
Q.3	i.	What is green house effect? definition = 1 mark	1
	ii.	What are the factors to be considered in site selection of greenhouses? various factors = 3 marks	3
	iii.	Explain in detail the components of green house structure? various components= 4 marks	4
OR	iv.	Classify the greenhouses according to different criteria? classification = 4 marks	4
Q.4	i.	What is Benching? definition = 2 marks	2
	ii.	Enlist the different components of drip irrigation system. various components under this = 6 marks	6
OR	iii.	Write the short note on the following ;	6

(a) Net house = 3 marks (b) Propagation frames = 3 marks

Q.5	i.	Write the varieties/cultivars name of Tomato. 2 or more varieties name = 2 marks	2
	ii.	Write the any two importances of pot plants and containers. 2 importance = 2 marks	2
	iii.	Describe about the greenhouse cultivation of rose cultivation of rose = 4 marks	4
OR	iv.	Describe post harvest management of Chrysanthemum. post harvest management = 4 marks	4
Q.6		Attempt any two:	
	i.	Describe off-season production of flowers with suitable examples eg = 1 mark and description = 5 marks.	4
	ii.	Explain about the economically important medicinal plants of polyhouse cultivation. imp medicinal plants = 4 marks	4
	iii.	Write the advantages of off-season vegetable production in polyhouse. 4 advantages = 4 marks	4