

*Total No. of Questions: 6*

*Total No. of Printed Pages:3*

**Enrollment No.....**



Duration: 3 Hrs.

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.

Faculty of Agriculture  
Sem Examination Dec 2024  
G3EL07 Protected Cultivation

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

Maximum Marks: 50

[2]

- v. In drip irrigation system, fertigation is done by-      **1**    1    1    2  
     (a) Hydrocyanine  
     (b) Venchuri  
     (c) Application of soluble fertilizers near hydrogol  
     (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:  
     (a) Strawberry      (b) Cherry  
     (c) Avocado      (d) Pear
- ix. Central institute of medical and aromatic plants is situated at:  
     (a) Hissar      (b) Jhansi  
     (c) Bangalore      (d) Lucknow
- x. *Plantago ovate* 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

[3]

- 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

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### Marking Scheme

#### **AG3EL07 (T) Protected Cultivation (T)**

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

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

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