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Enrollment No.....



Faculty of Agriculture
End Sem Examination Dec-2023
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.

- Q.1 i. The light intensity is measured by the international unit known as- **1**
(a) Newton (b) Lux (c) Joule (d) None of these
- ii. Which one is not an advantage of mulching? **1**
(a) It improves soil structure
(b) It increases soil organic matter
(c) It improves soil texture
(d) It improves nutrient availability in certain favorable conditions
- iii. For which climate is a low cost green house suitable- **1**
(a) Cold climate zone (b) Hot climate zone
(c) Heavy rainfall zone (d) All of these
- iv. Which Indian state has maximum area under protected cultivation? **1**
(a) Maharashtra (b) Karnataka
(c) Tamil Nadu (d) Himachal Pradesh
- v. Which is the commercial propagation method for coconut? **1**
(a) Seed (b) Inarching (c) Cutting (d) Patch budding
- vi. The process of seed drying is very important to maintain its _____. **1**
(a) Viability and vigour (b) Protein content
(c) Oil content (d) Chemical composition
- vii. What is the first stage of growth called after a cutting starts to grow? **1**
(a) Softwood formation (b) Stem formation
(c) Scab formation (d) Callus formation
- viii. Which one of the following is not a plant growth regulator- **1**
(a) Acetic acid (b) Auxins
(c) Gibberellins (d) Ethylene

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- ix. Clove is which part of the plant- **1**
(a) Stem (b) Bud (c) Fruit (d) Seed
- x. Which of the following part of chinchona tree is used to treat malaria? **1**
(a) Root (b) Bark (c) Leaves (d) Seed
- Q.2 i. What is protected cultivation? **1**
ii. Write importance of protected cultivation. **2**
iii. What are the objectives and benefits of protected cultivation? **5**
OR iv. Explain in detail about the status of protected cultivation in India. **5**
- Q.3 i. What is polyhouse or greenhouse farming? **1**
ii. How to make greenhouse, warm in winter? **3**
iii. Explain various types of greenhouses. **4**
OR iv. What type of irrigation system is deployed in greenhouse systems? **4**
What type of additives can be used while selecting a covering material for a green house?
- Q.4 i. What is propagation? How does a drip irrigation system is better compared to an above ground sprinkler? **2**
ii. Explain in detail about drip irrigation with diagram. **6**
OR iii. Write in detail the types of branches used in polyhouse. **6**
- Q.5 i. What is the role of nitrogen and potassium in the cultivation of cucumber? **2**
ii. What should be the dimension and composition of bed for the greenhouse cultivation of gerbera? **2**
iii. Explain in detail about the greenhouse cultivation of orchid. **4**
OR iv. Explain in detail about the greenhouse cultivation of tomato. **4**
- Q.6 Attempt any two:
i. Write names of any four medicinal plants and write two uses of each one of them. **4**
ii. Write in detail about the cultivation of neem with its medicinal values. **4**
iii. Write in detail about the cultivation of aloe vera with its medicinal values. **4**
