

**MODEL QUESTION PAPER**  
**B.Sc DEGREE EXAMINATIONS**  
**Semester: I**  
**Course -I : Fundamentals of Horticulture and Soil Science**

**Time: 3 hours**

**Max Marks: 75M**

**SECTION - A**

**Answer any 5 questions. Each question carries 5 marks. (5 X 5M = 25M)**  
**(Total 8 questions and at least two questions should be given from each unit)**

1. (a) Olericulture (b) Pomology
2. Kitchen garden
3. (a) Kitchen garden (b) Market garden
4. (a) Hexagonal orchard (b) Contour orchard
5. Soil
6. (a) Acidity (b) Alkalinity
7. Humus
8. Integrated Nutrient Management

**SECTION - B**

**Answer all the questions. Each question carries 10 marks. (5 X 10M = 50M)**

9. A) Discuss about fruit and vegetable zones in Andhra Pradesh.  
(OR)  
B) Write an essay on export scenario of horticulture produce and its scope in India.
10. A) Describe how horticulture plants are classified based on soil requirement?  
(OR)  
B) (a) Vegetable forcing (b) Roof garden
11. A) Describe calculation methods used in different planting systems.  
(OR)  
B) Explain different types and methods of pruning.
12. A) Write an essay on soil formation and factors affecting it.  
(OR)  
B) Discuss about soil taxonomy.
13. A) Write an essay on soil organic matter.  
(OR)  
B) Describe the soil microorganisms and soil fauna. Add a note on their beneficial and harmful roles.

## **MODEL QUESTION PAPER**

### **B.Sc DEGREE EXAMINATIONS**

**Semester: II**

**Course -2 : Plant Propagation and Nursery Management**

**Time: 3 hours**

**Max Marks: 75M**

#### **SECTION – A**

**Answer any 5 questions. Each question carries 5 marks.**

**(5 X 5M = 25M)**

**(Total 8 questions and at least two questions should be given from each unit)**

1. Advantages and disadvantages of sexual propagation
2. Sowing methods of seeds
3. Advantages and disadvantages of asexual propagation
4. Offsets used to raise nursery
5. (a) Patch budding (b) Chip budding
6. Importance of plant nursery
7. Bureau of Indian Standards (BIS-2008) related to nursery
8. Online nursery information and sales systems.

#### **SECTION – B**

**Answer all the questions. Each question carries 10 marks.**

**(5 X 10M = 50M)**

9. A)Write an essay on pre-germination treatments and viability tests.

(OR)

B)Discuss how polyembryony is useful for propagation citing examples of any two horticulture plants.

10. A)Describe bulbs, corms, tubers and rhizomes used to raise nursery.

(OR)

B)Define apomixis. Discuss how apomictics are useful in propagation of horticulture plants by citing any two examples.

11. A)Write an essay on various stem cuttings used in raising horticulture plants with suitable examples.

(OR)

B)Define layering. Discuss any four layering techniques practiced in horticulture.

12. A)Describe the layout of a horticulture nursery and its components.

(OR)

B)Give a brief account of plant propagation structures.

13. A)Discuss the seasonal activities and routine operations in a plant nursery.

(OR)

B)Write an essay on economics of nursery development and record maintenance.

**MODEL QUESTION PAPER**  
**B.Sc DEGREE EXAMINATIONS**  
**Semester: III**  
**Course -3 : Basics of Vegetable Science (Olericulture)**

**Time: 3 hours**

**Max Marks: 75M**

**SECTION – A**

**Answer any 5 questions. Each question carries 5 marks. (5 X 5M = 25M)**  
**(Total 8 questions and at least two questions should be given from each unit)**

1. Nutritive value of vegetables
2. Constraints in vegetable production
3. Morphology and taxonomy of Brinjal
4. Climate and soil for carrot
5. Intercultural operations in Tapioca
6. Diseases of Cabbage and their control
7. Morphology and taxonomy of Cluster bean
8. Climate and soil for Cluster bean

**SECTION – B**

**Answer all the questions. Each question carries 10 marks. (5 X 10M = 50M)**

9. A) Discuss the importance of vegetable cultivation in India and Andhra Pradesh.

(OR)

B) Explain the export and import potential of vegetables in India.

10. A) Describe the cultivation practices for Tomato.

(OR)

B) Describe the cultivation practices for *Mentha*.

11. A) (a) Varieties of Carrot (b) Varieties of Tapioca

(OR)

B) Write an essay on cultivation practices for *Colocasia*.

12. A) (a) Morphology and taxonomy of Cabbage (b) Varieties of Cauliflower

(OR)

B) Discuss the cultivation practices for Cabbage.

13. A) (a) Morphology and taxonomy of *Dolichos* (b) Diseases of *Dolichos* and their control

(OR)

B) Discuss the cultivation practices for Cowpea.



**MODEL QUESTION PAPER**  
**B.Sc DEGREE EXAMINATIONS**  
**Semester: IV**  
**Course -4 : Basics of Fruit Science (Pomology)**

**Time: 3 hours**

**Max Marks: 75M**

**SECTION – A**

**Answer any 5 questions. Each question carries 5 marks. (5 X 5M = 25M)**  
**(Total 8 questions and at least two questions should be given from each unit)**

1. Importance of fruit growing in India
2. Constraints in fruit production and remedies to overcome them.
3. (a) Varieties of Mango (b) Varieties of Papaya
4. (a) Soil for Grapes (b) Soil for Apple
5. (a) Climate for Pomegranate (b) Climatic requirements for *Citrus*
6. (a) Propagation of Amla (b) Propagation of Wood apple
7. Principles of IPM
8. Storage of fruits

**SECTION – B**

**Answer all the questions. Each question carries 10 marks. (5 X 10M = 50M)**

9. A) Describe the nutritive value of fruits.  
(OR)  
B) Give an account on area and production of fruit crops in India and Andhra Pradesh.
10. A) Discuss the cultivation practices of Mango.  
(OR)  
B) (a) Soil and climate for Guava (b) Diseases and pests of Guava
11. A) (a) Soil and climate for Apple (b) Diseases and pests of Apple  
  
B) Discuss the cultivation practices of Grapes.
12. A) (a) Soil and climate for Dates (b) Diseases and pests of Dates  
(OR)  
B) Discuss the cultivation practices of Amla.
13. A) Write an essay on sustainable production practices for local fruit production.  
(OR)  
B) Discuss about Integrated Orchard Management.

**MODEL QUESTION PAPER**  
**B.Sc DEGREE EXAMINATIONS**

**Semester: IV**  
**Course -5 : Pests and Diseases of Horticulture Plants and their Management**

**Time: 3 hours**

**Max Marks: 75M**

**SECTION – A**

**Answer any 5 questions. Each question carries 5 marks. (5 X 5M = 25M)**  
**(Total 8 questions and at least two questions should be given from each unit)**

1. (a) Disease triangle (b) Disease pyramid
2. Any two symptoms of Bacterial diseases in plants
3. Yellow vein mosaic of Bhendi
4. Late blight of Potato
5. *Ganoderma* root rot
6. Cashew stem borer
7. Rose aphid
8. Nematicides

**SECTION – B**

**Answer all the questions. Each question carries 10 marks. (5 X 10M = 50M)**

9. A) Give a general account on symptoms of plant diseases caused by Viruses.  
(OR)  
B) Write an essay on classification of Insects up to orders and families of economic importance.
10. A) Discuss the pests and disease of Cucurbits.  
(OR)  
B) Discuss the pests and disease of Sweet potato.
11. A) Describe the pests and disease of Banana.  
(OR)  
B) Describe the pests and disease of Custard apple.
12. A) Write an essay on pests and disease of Marigold.  
(OR)  
B) Write an essay on pests and disease of Gladiolus.
13. A) Discuss the principles and methods of plant disease management.  
(OR)  
B) Describe the preparation of fungicidal solutions, slurries, pastes and their application.