

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE (Honours)
2023-24 Admitted Batch
I Year Semester – I
BASICS OF AGRICULTURAL SCIENCES
MODEL QUESTION PAPER

Time: 3 Hours

Maximum: 75 Marks

SECTION – A

Answer any **FIVE** questions. Each question carries equal marks. (5*5 = 25)

1. Objectives of the plant breeding
2. Future prospects of the plant breeding
3. Write about the structure and functions of Endoplasmic Reticulum
4. Explain about different microbial groups.
5. Scope of horticulture in India.
6. What are the different sources of farm power and give the merits and demerits of farm sources
7. Give the Importance of horticulture in terms of export.
8. Write about the structure and functions of golgi apparatus

SECTION – B

Answer **All** the questions. Each question carries **TEN** marks (5*10 = 50)

1. a) Write about the structure and functions of mitochondria and Ribosomes
(OR)
b) Germ theory of diseases koch's postulates: pure culture methods
2. a) Give an account of the classification of horticulture.
(OR)
c) Describe the influence of climatic factors on horticultural crop production.
3. a) Write about sexual reproduction in plants.
(OR)
b) Write about objectives and scope of plant breeding.
4. a) Write about the classification of IC engine with their characteristics.
(OR)
b) Write an essay on various types of renewable energy resources.
5. a) Write about the importance of microorganisms and role of microbes in fermentation.
(OR)
b) Explain the divisions of horticulture.

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE
2023-24 Admitted Batch
I Year Semester- II

FRUITS AND VEGETABLES PRESERVATION

MODEL QUESTION PAPER

Max. Marks: 50

Time: 1½ hrs (90 Minutes)

SECTION- A

(4x5M=20 Marks)

Answer any four questions. Each answer carries 5 marks
(At least 1 question should be given from each Unit)

- 1) Give the classification of foods according to their storage.
- 2) Spoilage of Vegetables
- 3) Biological ageing of fruits
- 4) Frozen Okra
- 5) Pickling
- 6) Add a short note on fruit slicing.
- 7) Properties of glass containers used in packing
- 8) Write about the causes for post harvesting losses.

SECTION-B

(3x10M = 30 Marks)

Answer any three questions. Each answer carries 10 marks
(At least 1 question should be given from each Unit)

- 1) What is a fruit? Explain different types of fruits.
- 2) What are the various methods of preservation of fruits by freezing?
- 3) Write an essay on how Jam is prepared?
- 4) Explaining different environmental factors controlling fruit ripening.
- 5) Write an essay on processing of Vegetables.

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE
I Year – Semester II
2023-24 Admitted batch
AGRICULTURE MARKETING

MODEL QUESTION PAPER

Max. Marks: 50

Time: 1½ hrs (90 Minutes)

SECTION – A

Answer any Four questions. Each question carries Five marks?

(4*5=20)

1. What are the advantages of contract farming?
2. What are the functions of Rythu Bharosa Kendras (RBK)?
3. What is the difference between speculation vs hedging?
4. What is the role of NABARD in Agricultural marketing finance?
5. What is marketing channel and give one example for any crop.
6. What are the components of basic market structure?
7. What are the advantages of Grading?
8. Explain different packing materials used in product market.

SECTION – B

Answer any three questions. Each question carries Ten marks

(3*10=30)

1. What are the different marketing functions and explain them in detail?
2. What are the differences in marketing of agricultural and manufactured goods?
3. A. What are the aims and objectives of ISI and
B. AGMARK
4. A. What is the importance of agricultural marketing
B. Define marketable surplus and marketed surplus. What are the factors affecting marketable surplus?
5. A. What is market and list out classification of markets.
B. Classify markets based on competition and write the characteristic features of each market with example.

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE (Honours)
2023-24 Admitted Batch
1 Year Semester – II
INTRODUCTION TO AGRONOMY
MODEL QUESTION PAPER

Time: 3 Hours

Maximum: 75 Marks

SECTION – A

Answer any FIVE questions. Each question carries equal marks. (5*5 = 25)

1. What do you mean by sustainable agriculture? Mention the Features of Sustainable agriculture.
2. Write a note on tillage and list out the importance of tillage.
3. Discuss about zero tillage and Stubble nuclear tillage.
4. Differentiate between manures and fertilizers.
5. What do you mean by Cropping system and Cropping pattern.
6. What is a Crop? Classify the crops.
7. Write about green manuring.
8. Explain the factors effecting crop production.

SECTION – B

Answer All the questions. Each question carries TEN marks (5*10 = 50)

- 1.a) Write a detailed note on Integrated Farming System (IFS).
(OR)
b) Discuss about Organic Farming.
2. a) What do you mean by fertilizers? Write a note on methods of fertilizer application.
(OR)
b) Future Scope of Organic agriculture.
3. a) What is a Weed? Describe the methods of Weed control.
(OR)
b) What do you mean by manures? List out the most Familiar manures.
4. a) Write a detailed note on modern concepts of tillage.
(OR)
b) Write an essay on Crop establishment methods
5. a) What is irrigation? List out the methods or types of irrigation.
(OR)
b) Mention the objectives and importance of tillage.

ANDHRA UNIVERSITY
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2023-24 Admitted Batch
I Year Semester- II
INTRODUCTION TO SOIL SCIENCE
MODEL QUESTION PAPER

Time: 3 Hours

Maximum: 75 Marks

SECTION – A

Answer any **FIVE** questions. Each question carries equal marks. (5*5 = 25)

1. Discuss about the profile of the Soil.
2. Write a note on soil Air and Soil water.
3. Write a note on classification of soil.
4. Write briefly about soil forming factors
5. What are inorganic solid and explain.
6. Give a brief account on soil organic matter
7. Difference between soil fertility and productivity.
8. What are the criteria of essentiality and classify the essential nutrients.

SECTION – B

Answer **All** the questions. Each question carries **TEN** marks (5*10 = 50)

1. a) What do you mean the seep out of top soil? What were types of it.
(OR)
b) What is drainage? Write its types.
2. a) Write a detailed note on soil relations.
(OR)
b) What is ion? What do you mean by ionic exchanger? Discuss about cat ion exchange capacity.
3. a) Write an essay on soil organic matter? Its importance for flora & Fauna of soil.
(OR)
b) Write about the chemistry of soil? Discuss about bulk and practical density.
4. a) Write a note on Porosity of soil.
(OR)
b) Discuss about nitrogen transformation in detailed manner
5. a) What are the functions of primary nutrients and their deficiency symptoms
(OR)
b) Write a note on sulphur transformation.

ANDHRA UNIVERSITY
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2023-24 Admitted Batch
I Year Semester – II
FUNDAMENTALS OF GENETICS
MODEL QUESTION PAPER

Time: 3 Hours

Maximum: 75 Marks

SECTION – A

Answer any **FIVE** questions. Each question carries equal marks. (5*5 = 25)

1. What are the characteristics of Mutations.
2. Explain lac operon concept of general regulation with neat labelled diagram.
3. Differentiate between linkage & crossing over.
4. Explain Mendel's law of heredity with suitable examples.
5. Explain the experiment to show cytological proof of crossing over.
6. Explain the different types of structural chromosomal aberration with suitable illustrations.
7. What is meant by gene action. Explain the types of gene action.
8. Write about linkage groups.

SECTION – B

Answer **All** the questions. Each question carries **TEN** marks (5*10 = 50)

1. a) Explain the stages in meiosis with diagrams.
(OR)
b) What is polyploidy? Give the significance of polyploidy in plant breeding.
2. a) Differentiate between mitosis & meiosis.
(OR)
b) Explain lethal gene action with the help of suitable example.
3. a) Define gene interaction? Explain any two of the gene interactions with help of suitable examples.
(OR)
b) Explain different models of sex determination in plants.
4. a) Explain about the special types of chromosomes.
(OR)
b) Explain the principle of dominance and the exceptions to Mendel's laws.
5. a) Explain the Phenomenon of multiple allele with the help of an appropriate example.
(OR)
b) Write about classification, Characteristics of linkage