

ANDHRA UNIVERSITY
B.Vocational course
Dairying & Animal husbandry
II Year – Semester III
2020-21 Admitted batch
ORGANIC CHEMISTRY
MODEL QUESTION PAPER
ORGANIC CHEMISTRY

Max. Marks: 75

Time: 3 hrs

SECTION- A

Answer any five questions. Each answer carries 5 marks (At least 1 question should be given from each Unit)
 (5x5M=25 Marks)

1. Explain different types of bond fissions in organic chemistry.
2. Explain 1,2 and 1,4 addition reactions of conjugated dienes.
3. Explain resonance in Benzene and also explain its reactivity.
4. Explain the mechanism for pinacol – pinacolone rearrangement.
5. Explain the preparation of alcohols by Grignard synthesis.
6. Explain the synthesis of aldehydes and ketones by using 1,3 dithianes.
7. Explain the mechanism of aldol condensation.
8. Explain the mechanism of benzoin condensation.

SECTION B

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

(5x10M = 50 Marks)

1. (A) Explain the factors influencing the polarization of covalent bonds and its applications.
 (OR)
 (B) Explain the following reactions
 (i) Hydroboration (ii) Michael addition (iii) Mannich reaction
2. (A) (i) Write the preparations of alkenes (ii) Explain Alkene addition reactions by Markonikov's rule with different examples. (OR)
 (B) (i) Explain Bayer strain theory (ii) Draw confirmations of cyclohexane and explain their stability by drawing energy profile diagram.
3. (A) Define Hukel rule of aromatic compounds. What are benzenoid and Non-benzenoid aromatic compounds? Give examples. (OR)
 (B) Explain the mechanism of nitration and Friedel-Craft's alkylation of Benzene.
4. (A) Give the mechanism of stereo chemistry of SN^1 and SN^2 reactions of alkyl halides with suitable examples. (OR)
 (B) Explain the following reactions with mechanism. (i) Reimer – Tiemann reaction (ii) Fries rearrangement.
5. (A) Discuss the mechanism for following reactions (i) Parkin reaction (ii) Cannizaro reaction (OR)
 (B) Discuss the mechanism of following reactions (i) Bayer – Villiger oxidation reaction (ii) Wolf Kishner reaction

ANDHRA UNIVERSITY
 B.Vocational course
 Dairying & Animal husbandry
 II Year – Semester III
 2020-21 Admitted batch
HEALTH AND HYGEINE
MODEL QUESTION PAPER

Max. Marks: 50

Time: 1 1/2 hrs (90 min.)

SECTION - A

Answer any four questions. Each answer carries 5 marks.

(4*5=20 Marks)

1. Write in detail about Micro & Macro minerals? Their functions & effect of mineral deficiency?
2. Write in detail about importance of water and its functions, sources of availability & effects of water deficiency?
3. Write in detail about control & prevention of epidemics and pandemics Acts & Guidelines?
4. Name different Nutritional & Health organizations and their functions?
5. Write in detail about Hygiene, personal, community, medical & culinary hygiene?
6. Write in detail about Arogya setu app & ASHA?
7. Write about National Health policy of Govt. of India - 2017?

SECTION - B

(3*10=30 Marks)

Answer any three questions. Each answer carries 10 marks.

1. Define Nutrition, Importance of Nutrition, Balanced diet, basics of Meal planning & write about Mal nutrition?
2. Write in detail about functions, dietary sources, effects of deficiency of Carbohydrates and Proteins?
3. Write in detail about National Health Mission- National Rural Health Mission & National Urban Health Mission- framework?
4. Write in detail about Janani Sishu Suraksha Karykaram- JSSK, Rashtriya Bal Swasthya Karyakaram- RBSK, India Newborn Action Plan - INAP?
5. Write in detail about Environmental Sanitation, Public awareness through Digital media, mobile apps of govt. of India?

ANDHRA UNIVERSITY
 B.Vocational course
 Dairying & Animal husbandry
 II Year – Semester III
 2020-21 Admitted batch
ENVIRONMENTAL EDUCATION
 (Credits 2+0=2)

Model paper

Time: 1 ½ hr

Maximum: 50marks

SECTION – A

Answer any Four questions. Each question carries five marks.

(4*5 =20)

- 1.Explain different types of bio diversity.
- 2.What are the various water resources? Explain in detail
- 3.Write about soil erosion.
- 4.Explain in detail about renewable and non renewable ressources.
- 5.Write about deforestation.
- 6.What is green house effect?
- 7.Write about CHIPKO movement.
- 8.Explain the management of solid waste.

SECTION – B

Answer any three Questions. Each question carries ten marks

(3*10 =30)

- 1.What is meant by environment, scope and importance
- 2.India is mega diversity nation - discuss
- 3.Write a brief note on air, water, soil and noise pollutions.
- 4.What is the impact of human population on environment.
- 5.What do you mean by sustainable development and explain the components of sustainability.

ANDHRA UNIVERSITY
B.Vocational course
Dairying & Animal husbandry
II Year – Semester III
2020-21 Admitted batch
DISASTER MANAGEMENT
MODEL QUESTION PAPER

Max marks: 50

Time: 1hr 30mts

Section – A
Answer any four(4) questions. Each question carries 5 marks

4X5=20 marks

1. Define Disaster. How cyclone is caused? Classify cyclones.
2. What is drought? Explain the different management aspects in drought situation.
3. Explain various firefighting methods.
4. Explain the role of citizens and youth in prevention and management of disasters.
5. Write in detail about the post disaster effects of Tsunami
6. What measures are to be taken in protection of livestock during flood and cyclone?
7. Explain in brief about the Disaster management act 2005.

Section – B

Answer any three(3) questions. Each question carries 10 marks **3X10=30 marks**

1. Write an essay on National disaster management authority (NDMA) of India.
2. What are the various natural disasters? Explain in detail about any two natural disasters.
3. What are the various measures that have to be adopted in prevention of Road and boat tragedies?
4. What are the long term remedial and preventive measures in disaster management?
5. Write an essay on earthquake.

ANDHRA UNIVERSITY
 Bachelor of Vocation: Dairying & Animal husbandry
 II Year – Semester III
 2020-21 Admitted batch
BASICS OF ANIMAL NUTRITION
 (Credits 4+2=6)
Model paper

Time: 3hrs

Maximum: 75marks

SECTION – A

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

1. Write about Importance of water in the Animal Body.
2. What are the functions of Calcium, its deficiency symptoms.
3. What are the blood forming minerals? Write brief about their other functions.
4. Name the essential Amino Acids.
5. Describe about Acidosis in ruminants?
6. What are the nutrients present in different proximate principles of feeds?
7. Write about difference diseases caused due to deficiency of B-Complex vitamins.
8. What are the functions of fats in the Animal Body? What are essential fatty acids?

SECTION – B

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

1. a) Write about functions, deficiency symptoms and sources of fat-soluble vitamins.
(or)
b) Importance of salt in the animal diet.
2. a) Classify feed ingredients and give one example to each category.
(or)
b) Write about different feed processing methods
3. a) Draw a diagrammatic representation of feed plant and label them with different areas.
(or)
b) Describe about feeding of laying poultry.
4. a) Formulate a model ration for an adult cow weighing 400 kg BW and 8 liters milk yield with 5% fat.
(or)
b) What are agro industrial byproducts? Give five examples along with significance of each byproduct in animal nutrition.
5. a) Write about feeding of different categories of pigs.
(or)
b) Describe about different types of commercial pet foods.

ANDHRA UNIVERSITY
 Bachelor of Vocation
 Dairying & Animal husbandry
 II Year – Semester III
 2020-21 Admitted batch
FODDER PRODUCTION AND CONSERVATION
 (Credits 4+2=6)
Model paper

Time: 3hrs

Maximum: 75marks

SECTION – A

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

1. What is the importance of land preparation for fodder cultivation.
2. Write the stage of harvest of any five fodder crops.
3. What is rotational grazing? What are its uses?
4. What are the crop residues commonly fed to animals? Why they are important?
5. Write briefly about Urea, DAP and Murate of Potash
6. Write the seed rates of any five fodder crops.
7. What are perennial fodder crops? What is their importance?
8. Write about fodder storage?

SECTION – B

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

1. a) Describe silage making in detail.
(OR)
b) Give details of Maize fodder cultivation.
2. a) What are the advantages of hay making? Describe hay making methods in detail.
(OR)
a. Write about Urea treatment of paddy straw.
3. a) Describe Hybrid Napier cultivation.
(OR)
a. How to reduce fodder wastage during cultivation, harvest, transportation, storage and feeding.
4. a) Give detailed description of grassland management.
(OR)
a. Write detailed cultivation practices Lucerne.
5. a) Describe about manures and fertilizers used in fodder production, their application rate for Bajra crop.
(OR)
b) Write about chaffing and chaff cutters in detail.

ANDHRA UNIVERSITY
B.Vocational course
Dairying & Animal husbandry
II Year – Semester III
2020-21 Admitted batch
VETERINARY PUBLIC HEALTH AND FOOD SAFETY
(Credits 4+2=6)

Model paper

Time: 3hrs

Maximum: 75marks

SECTION – A

Answer any **Five** of the following (5x5 = 25)

1. What are the different spoilage microflora and spoilage conditions of milk?
2. Differentiate the synthetic milk from natural milk?
3. Write different abnormal conditions detected in meat?
4. Enlist different indirect tests for microbiological analysis in the dairy industry and explain about any dye reduction test?
5. Write about the emergency slaughter of animals?
6. What are the different adulterants used in milk? Explain method of detection for any two commonly used adulterants at field level.
7. What are the different disease conditions need to be observed during postmortem inspection of poultry?
8. What are the basic principles of food safety?

SECTION – B

Answer all the questions. Each question carries ten marks (5x10 =50)

1. Classify different types of food borne illness and describe about any meat borne disease?

or

What are the different sources of contamination in milk production. Describe about different steps involved in Clean milk production?

2. Enlist different methods for identification of fraudulent substitution of meat and explain in detail about any method?

or

Define HACCP? Write about the principles of HACCP.

- 3 What are the different occupational health hazards encountered by slaughter house workers and write in detail about the preventive measures.

or

Discuss in detail about different facilities required for ante mortem inspection. What are the different judgments given in ante mortem inspection.

- 4 Define one health and write about different components of one health.

or

Write in detail about the different methods for safe disposal of abattoir wastes.

- 5 What is the role of a veterinarian in promotion of public health?

or

Discuss in detail about different approaches you recommend a farmer regarding safe and hygienic production of animal based foods (milk, meat & eggs) in your own words.

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AGRICULTURE
2020-21 Admitted Batch
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MODEL QUESTION PAPER

Max. Marks: 75

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SECTION- A

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(5x5M=25 Marks)

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2. Explain 1,2 and 1,4 addition reactions of conjugated dienes.
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SECTION B

Answer all questions. Each answer carries 10 marks
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(5x10M = 50 Marks)

1. (A) Explain the factors influencing the polarization of covalent bonds and its applications.
(OR)
(B) Explain the following reactions
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2. (A) (i) Write the preparations of alkenes (ii) Explain Alkene addition reactions by Markonikov's rule with different examples.
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(B) Explain the mechanism of nitration and Friedel-Craft's alkylation of Benzene.
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(B) Explain the following reactions with mechanism. (i) Reimer – Tiemann reaction (ii) Fries rearrangement.
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AGRICULTURE
2020-21 Admitted Batch
II Year – Semester III
HEALTH & HYGIENE
MODEL QUESTION PAPER

Max. Marks: 50

Time: 1 1/2 hrs (90 min.)

SECTION - A

Answer any four questions. Each answer carries 5 marks. (4*5=20 Marks)

1. Write in detail about Micro & Macro minerals? Their functions & effect of mineral deficiency?
2. Write in detail about importance of water and its functions, sources of availability & effects of water deficiency?
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SECTION - B

(3*10=30 Marks)

Answer any three questions. Each answer carries 10 marks.

1. Define Nutrition, Importance of Nutrition, Balanced diet, basics of Meal planning & write about Mal nutrition?
2. Write in detail about functions, dietary sources, effects of deficiency of Carbohydrates and Proteins?
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4. Write in detail about Janani Sishu Suraksha Karyakaram- JSSK, Rashtriya Bal Swasthya Karyakaram- RBSK, India Newborn Action Plan – INAP?
5. Write in detail about Environmental Sanitation, Public awareness through Digital media, mobile apps of govt. of India?

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE
2020-21 Admitted Batch
II Year – Semester III
ENVIRONMENTAL EDUCATION
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.Explain different types of bio diversity.
- 2.What are the various water resources? Explain in detail
- 3.Write about soil erosion.
- 4.Explain in detail about renewable and non renewable resources.
- 5.Write about deforestation.
- 6.What is green house effect?
- 7.Write about CHIPKO movement.
- 8.Explain the management of solid waste.

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 meant by environment, scope and importance
- 2.India is mega diversity nation - discuss
- 3.Write a brief note on air, water, soil and noise pollutions.
- 4.What is the impact of human population on environment.
- 5.What do you mean by sustainable development and explain the components of sustainability.

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE
2020-21 Admitted Batch
II Year – Semester III
DISASTER MANAGEMENT
MODEL QUESTION PAPER

Max marks: 50

Time: 1hr 30mts

Section – A

Answer any four(4) questions. Each question carries 5 marks

4X5=20 marks

1. Define Disaster. How cyclone is caused? Classify cyclones.
2. What is drought? Explain the different management aspects in drought situation.
3. Explain various firefighting methods.
4. Explain the role of citizens and youth in prevention and management of disasters.
5. Write in detail about the post disaster effects of Tsunami
6. What measures are to be taken in protection of livestock during flood and cyclone?
7. Explain in brief about the Disaster management act 2005.

Section – B

Answer any three(3) questions. Each question carries 10 marks **3X10=30 marks**

1. Write an essay on National disaster management authority (NDMA) of India.
2. What are the various natural disasters? Explain in detail about any two natural disasters.
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4. What are the long term remedial and preventive measures in disaster management?
5. Write an essay on earthquake.

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE
2020-21 Admitted Batch
II Year – Semester III
AGRONOMY OF FIELD CROPS
MODEL QUESTION PAPER

Time: 3 Hours

Maximum: 75 Marks

SECTION – A

Answer any FIVE questions. Each question carries equal marks.

(5*5 = 25)

1. Differentiate between *Corchorus capsularis* & *Corchorus Olitorius*.
2. Explain about Sorghum effect.
3. Write about Retting process of Jute.
4. Write down the Nutritional values of Bajra & finger millet
5. Classification of wheat with scientific names
6. Write briefly about different types of nurseries practiced in Rice.
7. Write down some varieties of Wheat, Maize, Sunflower, Cotton & Sorghum.
8. Write down common names, scientific names and their origins of all major & minor millets.

SECTION – B

Answer All the questions. Each question carries TEN marks

(5*10 = 50)

1. a) Write down the importance of pulses in india.
(OR)
b) Write down the importance of oilseeds in india.
2. a) Write about SRI Method of rice cultivation.
(OR)
b) Write about all planting methods of sugarcane.
3. a) Write general package of practices of millets.
(OR)
b) Write general package of practices of oilseeds.
4. a) Write about nutrient management of Rice, wheat & Maize.
(OR)
b) Write about nutrient management of Groundnut, Cotton & Sunflower.
5. a) Write Seed rate, souring, nutrient management, water Management, Weed Management, harvesting & yield of groundnut.
(OR)
b) Write seed rate, souring, nutrient Management, Water Management, Weed Management, harvesting & yield of Rice.

ANDHRA UNIVERSITY
B. Vocational course
AGRICULTURE
2020-21 Admitted Batch
II Year – Semester III
PESTS OF FIELD CROPS AND THEIR MANAGEMENT
MODEL QUESTION PAPER

Time: 3 Hours

Maximum: 75 Marks

SECTION – A

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

1. Write down symptoms and management for Brown Plant Hopper and Green Leaf Hopper of paddy.
2. Write down symptoms and management for Stem borer and Corn worm or ear worm of maize.
3. Write down symptoms and management for Red hairy caterpillar and leaf hopper.
4. Write down symptoms and management for Leaf eating caterpillar and Diamond back moth.
5. Write down symptoms and management for Root grub and Leaf miner of groundnut.
6. Write down symptoms and management for Pink bollworm and American boll worm of cotton.
7. Write down symptoms and management for Sugarcane scales and sugarcane pyrilla
8. List out the Internal and External feeders with their scientific names of stored grain pest.

SECTION – B

Answer All the questions. Each question carries TEN marks

(5*10 = 50)

9. a) Write down IPM practices of Paddy.
(OR)
b) Write down symptoms and management for Mustard saw fly, Groundnut aphid and sorghum gall fly.
10. a) Write down IPM practices of Pulses.
(OR)
b) Write down symptoms and management for termites, castor shoot borer, and castor jassids.
11. a) Write down IPM practices of Cotton.
(OR)
b) Write down symptoms and management for spotted boll worm, Red cotton bug, and cotton thrips.
12. a) Write down IPM practices of Stored grain pest.
(OR)
b) Write down symptoms and management for Ragi pink borer, sorghum ear head bug, and sorghum midge.
13. a) Write down the management practices for Rodents
(OR)
b) List out the pests of birds and locusts with their scientific names and their management.

ANDHRA UNIVERSITY
B. Vocational course
2020-21 admitted batch
2nd year 3rd Semester
**MANURES, FERTILIZERS AND SOIL FERTILITY
MANAGEMENT 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 is soil fertility and soil productivity? Differentiate between them
2. Give an account on nutrient content of different fertilizers and manures
3. Write a note on Fertilizer Control Order
4. Write short note on different composting techniques
5. Briefly explain soil health and management
6. Give a detailed procedure on soil fertility evaluation
7. Write about concept of Integrated Nutrient Management
8. What are fertilizers and manures? Give a detailed differentiation of fertilizers and manures

SECTION - B

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

1. a) Write about different methods of fertilizer application
(OR)
b) Discuss nutrient use efficiencies of nutrients and enhancement techniques.
2. a) Write and explain detailed classification of fertilizers
(OR)
b) Give a detailed account on nutrient dynamics for micronutrients
3. a) Write an essay on essential nutrients
(OR)
b) Write an essay on specialty/ complex/ mixed fertilizers
4. a) Discuss different types of manures in detail
(OR)
b) Give an account on nutrient dynamics for macronutrients
5. a) Write about different nutrient management concepts and explain them
(OR)
b) Write about manufacturing process for Urea, DAP and MOP