

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester II
2020-21 Admitted batch
English-2
(Credits 3+0=3)

A Course in Reading & Writing Skills

Use reading skills effectively
 Comprehend different texts
 Interpret different types of texts
 Analyse what is being read
 Build up a repository of active vocabulary
 Use good writing strategies
 Write well for any purpose
 Improve writing skills independently for future needs

I. UNIT

Prose Skills	: 1. How to Avoid Foolish Opinions Bertrand Russell : 2. Vocabulary: Conversion of Words : 3. One Word Substitutes : 4. Collocations
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II. UNIT

Prose	: 1. The Doll's House	Katherine Mansfield
Poetry Non-Detailed Text Skills	: 2. Ode to the West Wind : 3. Florence Nightingale : 4. Skimming and Scanning	P.B. Shelley Abrar Mohsin

III. UNIT

Prose Poetry Skills	: 1. The Night Train at Deoli : 2. Upagupta : 3. Reading Comprehension : 4. Note Making/Taking	Ruskin Bond Rabindranath Tagore
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IV. UNIT

Poetry Skills	: 1. Coromandel Fishers : 2. Expansion of Ideas : 3. Notices, Agendas and Minutes	Sarojini Naidu
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V. UNIT

Non-Detailed Text	: 1. An Astrologer's Day	R.K. Narayan
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Skills

:2. Curriculum Vitae and Resume

:3. Letters

: 4. E-Correspondence

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Model paper

Time:3hrs

Maximum:75marks

SECTION -A

I. Answer any TWO of the following questions in 75 words each. 2X5=10

- a. What does Russell say about self-esteem?
- b. Why were the Kevleys not invited to see the doll's house?
- c. How does Ruskin Bond describe Deoli Station?

II. Answer any TWO of the following questions in 75 words each. 2X5=10

- a. Why does Shelley call the West Wind both preserver and destroyer?
- b. How is the spring season described in the poem Upagupta?
- c. What happens if the fishermen are late in starting their work?

III. Answer any ONE of the following questions in 75 words each.

1X5=5

- a. There is nothing glorious about wars, explain.
- b. Describe the astrologer's appearance and attitude.

IV. A. Pick the correct form of the word

2X1=2

1. Why do you always look _____? (anger, angry, angrily)
2. Some of the students' answers were not _____. (clearly, clear, clarity)

B. Write suitable one word substitutes against their meanings. 5X1=5

1. A place where coins, medals, or tokens are made—
2. A person who compiles dictionaries—
3. A small shelter for a dog—
4. Persons living at the same time—
5. One who believes in fate—

C. Find the collocations in the following sentences

3X1=3

1. The documentary was a big disappointment.
2. Could you help me to carry this heavy bag?
3. This coffee has a very strong smell.

V. What are the differences between Skimming and Scanning? 1X5=5

VI. A. Read the following passage and write answers. 1X5=5

Agriculture is the backbone of our country and so it has to be developed intensively. Since land can not be expanded the available land has to be put to maximum use. We have to grow two crops now where we were growing only one. Modern methods of cultivation and the use of chemical fertilizers should be more extensively used. Pest control cannot be forgotten.

Marketing helps the development of agriculture. What we produce must be sold for a reasonable price. There should be good storage facilities as well. And these should be available in rural areas. Good roads for easy transport have to be laid and maintained.

1. Why should we develop agriculture?
2. What have we to do with the available land?
3. What should be done to increase food production?
4. Write the opposite word to modern.
5. What are necessary for easy transport?

B. Read the following passage and prepare notes. 1X5=5

The use of heat pumps has been held back largely by scepticism about advertisers' claims that heat pumps can provide as many as two units of thermal energy for each unit of electrical energy used, thus apparently contradicting the principles of energy conservation.

Heat pumps circulate a fluid refrigerant that cycles alternatively from its liquid phase to its vapour phase in a closed loop. The refrigerant, starting as a low – temperature, low – pressure vapour, enters a compressor driven by an electric motor. The refrigerant leaves the compressor as a hot, dense vapour and flows through a heat exchanger called the condenser, which transfers heat from the refrigerant to a body of air.

VII. A. Expand ONE of the following into a paragraph. 1X5=5

1. A friend in need is a friend indeed.
2. Laughter is the best medicine.

B. Prepare an agenda for the following topic. 1X5=5

You are Secretary of the Indian Sports Club in your town. The meeting of the office bearers of the club is scheduled for the 20th of next month. Prepare an agenda for the meeting.

VIII. Write a letter on any ONE of the following topics.

1X5=5

- A. Write a letter to principal of your college with a request for the purchase of more books for the college library.
- B. As Sunanda Gosh, write a letter to your friend inviting him/her to your brother's wedding.

IX. A. Prepare a curriculum vitae for the following advertisement. 1X5=5 You are the editor of the college campus magazine. A leading newspaper has advertised for trainee journalists with a technical background. Prepare a CV specifying your suitability for the job.

- B.** An old classmate of yours has passed the UPSC Civil Services exam and ranked first. Write an email congratulating him on his brilliant success in the examination. **1X5=5**

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*** అభ్యసన ఫలితాలు:-**

ఈ కోర్సు విజయవంతంగా ముగించాక, విద్యార్థులు క్రింది అభ్యసన ఫలితాలను పొందగలరు.

1. ఆర్గనైజ్మెంట్ ప్రభావం కారణంగా తెలుగులో వచ్చిన మృదులనిక సాహిత్యాన్ని, దాని విశిష్టతను గుర్తిస్తారు.
2. సమకాలీన మృదులనిక సాహిత్య ప్రక్రియలైన “వచన కవిత్వం, కథ, నవల, నాటకం, విమర్శ”లపై అవగాహన పొందుతారు.
3. భావకవిత, అభ్యుదయ కవితాలక్ష్యాలను గూర్చిన జ్ఞానాన్ని పొందుతారు. అస్తిత్వవాద ఉద్యమాలపుట్టుకను, ప్రవృత్తిని గుర్తిస్తారు.
4. కథాసాహిత్యం ద్వారా సామాజిక చైతన్యాన్ని పొందుతారు. సిద్ధాంతాల ద్వారా కాకుండా, వాస్తవ పరిస్థితులను తెలుసుకోవడం ద్వారా సిద్ధాంతాన్ని సమీక్షించగలరు.
5. మృదులనిక తెలుగు కల్పనాసాహిత్యం ద్వారా సామాజిక, సాంస్కృతిక, రాజకీయ చైతన్యాన్ని పొందుతారు.

పాఠ్య ప్రణాళిక

యూనిట్-I : ఆధునిక కవిత్వం

1. మృదులనిక కవిత్వం - పరిచయం
2. కొండవీడు - దువ్వూరి రామిరెడ్డి
(‘కవికోకిల’ గ్రంథావళి-ఖండకావ్యాలు-నక్షత్రమాల సంపుటి నుండి)
3. మాతృసంగీతం - అనిసెట్టి సుబ్బారావు (‘అగ్నివీణ’ కవితాసంపుటి నుండి)
4. ‘తాతకో నూలుపోగు’ - బండారు ప్రసాదమూర్తి (‘కలనేత’ కవితాసంపుటి నుండి)

యూనిట్-II : కథానిక

5. తెలుగు కథానిక - పరిచయం
6. భయం (కథ) - కాళీపట్నం రామారావు
7. స్వేదం ఖరీదు....? - (కథ) - రెంటాల నాగేశ్వరరావు

యూనిట్-III : నవల

8. తెలుగు ‘నవల’ - పరిచయం

9. రథచక్రాలు (నవల) - మహీధర రామ్మోహన రావు (సంక్షిప్త ఇతివృత్తం మాత్రం)

10. రథచక్రాలు (సమీక్షా వ్యాసం) - డా॥ యల్లాప్రగడ మల్లికార్జునరావు

యూనిట్-IV: నాటకం

11. తెలుగు 'నాటకం' - పరిచయం

12. యక్షగానము (నాటిక) - ఎం.వి.ఎస్. హరనాథరావు.

13. "అపురూప కళారూపాల విధ్వంసదృశ్యం 'యక్షగానము' (సమీక్షా వ్యాసం)"

-డా॥కందిమళ్ళసాంబశివరావు

యూనిట్-V: విమర్శ

14. తెలుగు సాహిత్య విమర్శ - పరిచయం

15. విమర్శ-స్వరూప స్వభావాలు; ఉత్తమ విమర్శకుడు-లక్షణాలు

ఆధార గ్రంథాలు/వ్యాసాలు:

1. ధృనిక కవిత్వం-పరిచయం : చూ. 'దృక్షణాలు' పుట 1-22, చూ. సత్యనారాయణ

2. తెలుగు కథానిక-పరిచయం : చూ. మన నవలలు-మన కథానికలు, పుట 118-130,

చూ. చూ. రాచపాళెం చంద్రశేఖర రెడ్డి

3. తెలుగు నవల-పరిచయం : చూ. నవలాశిల్పం, పుట 1-17, వల్లంపాటి వెంకటసుబ్బయ్య

4. తెలుగు నాటకం-పరిచయం : చూ. తెలుగు నాటకరంగం, పుట 17-25 చూ. గంగప్ప

5. తెలుగుసాహిత్య విమర్శ-పరిచయం: చూ. తెలుగుసాహిత్య విమర్శ-నాడు,నేడు పుట 213-217

తెలుగువాణి, అయిదవ అఖిలభారత తెలుగు మహాసభల ప్రత్యేక సంచిక

చూ. జి.వి.సుబ్రహ్మణ్యం

6. సూరేశ్వర తెలుగు నాటక రంగం - చూ. మొదలి నాగభూషణశర్మ

7. నాటకశిల్పం - చూ. మొదలి నాగభూషణశర్మ

8. సాంఘిక నవల-కథన శిల్పం - చూ. సి.మృణాళిని.

♦ సూచించబడిన సహపాఠ్య కార్యక్రమాలు:

1. ధృనిక కవిత్వానికి సంబంధించిన కొత్త కవితలను/అంశాలను ఇచ్చి, విద్యార్థులచేత వాటిమీద

అసైన్మెంట్లు రాయించడం

2. పాఠ్యాంశాలకు సంబంధించిన విషయాలపై వ్యాసాలు రాయించడం (సెమినార్/అసైన్మెంట్)

3. తెలుగు సాహిత్యంలోని ప్రసిద్ధ కథలపై, కవితలపై సమీక్షలు రాయించడం.

4. ధృనిక పద్యనిర్మాణ రచన చేయించడం.

5. విద్యార్థులను బృందాలుగా విభజించి, నాటకలపై/నవలలపై సమీక్షలు రాయించడం.

6. సాహిత్యవ్యాసాలు సేకరించడం, బృందచర్చ నిర్వహించడం, క్షేత్రపర్యటనలు.

7. ప్రసిద్ధుల విమర్శావ్యాసాలు చదివించి, వాటిని విద్యార్థుల సొంత మాటల్లో రాయించడం.

8. పాఠ్యాంశాలపై స్వీయ విమర్శావ్యాసాలు రాయించడం.

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PAPER

✦ప్రశ్నాపత్ర నమూనా ✦

అ-విభాగము

సంక్షిప్త సమాధాన ప్రశ్నలు - ప్రతి యూనిట్ నుంచి తప్పనిసరిగా ఒక ప్రశ్న ఇస్తూ, మొత్తం ఎనిమిది ప్రశ్నలు ఇచ్చి, ఐదింటికి సమాధానం రాయమనాలి. $5 \times 5 = 25$ మా.

ఆ-విభాగము

వ్యాసరూప సమాధాన ప్రశ్నలు-ప్రతి యూనిట్ నుంచి తప్పనిసరిగా రెండు ప్రశ్నలు ఇచ్చి ఒక ప్రశ్నకు సమాధానం రాయమనాలి. మొత్తం ప్రశ్నలు 5. $5 \times 10 = 50$ మా.

✦ మాదిరి ప్రశ్నాపత్రం ✦

అ-విభాగము

క్రింది వానిలో ఐదింటికి సంక్షిప్త సమాధానాలు రాయండి.

ప్రతి సమాధానానికి 5 మార్కులు. $5 \times 5 = 25$ మా.

1. కొండవీడు 5. కథానిక
2. తెలుగు నవల 6. విమర్శ
3. తెలుగు నాటకం 7. అనిసెట్టి సుబ్బారావు
4. ధృనిక కవిత్వం 8. కాళీపట్నం రామారావు

ఆ-విభాగము

క్రింది వానిలో అన్ని ప్రశ్నలకు సమాధానాలు రాయండి.

ప్రతి సమాధానానికి 10 మార్కులు. $5 \times 10 = 50$ మా.

9. ధృనిక కవిత్వవిర్భావ వికాసాలను వివరించండి.

(లేదా)

కొండవీడులో దువ్వూరి రామిరెడ్డి గారి సందేశాన్ని వివరించండి.

10. తెలుగు కథానికను పరిచయం చేయండి.

(లేదా)

భయం కథలోని రచయిత సందేశాన్ని రాయండి.

11. సాహిత్య ప్రక్రియగా నవల స్థానాన్ని విమర్శించండి.

(లేదా)

రథచక్రాలు నవలలోని ఇతివృత్తాన్ని విశ్లేషించండి.

12. తెలుగు నాటక పరిణామాన్ని గూర్చి రాయండి.

(లేదా)

యక్షగానం నాటికపై సమీక్షా వ్యాసం రాయండి.

13. తెలుగు సాహిత్య విమర్శను పరిచయం చేయండి (లేదా)

విమర్శ స్వరూప స్వభావాలను వివరిస్తూ, ఉత్తమ విమర్శకుని లక్షణాలను రాయండి.

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Information and communication technology (Credits
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Objectives:

This course aims at acquainting the students with basic ICT tools which help them in their day today and life as well as in office and research.

Course outcomes: After completion of the course, student will be able to;

1. Understand the literature of social networks and their properties.
2. Explain which network is suitable for whom.
3. Develop skill to use various social networking sites like twitter, flickr, etc.
4. Learn few GOI digital initiatives in higher education.
5. Apply skills to use online forums, docs, spreadsheets, etc for communication, collaboration and research.
6. Get acquainted with internet threats and security mechanisms.

SYLLABUS

UNIT-I: (08 hrs)

Fundamentals of Internet: What is Internet?, Internet applications, Internet Addressing- Entering a Web Site Address, URL- Components of URL, Searching the Internet, Browser

- Types of Browsers, Introduction to Social Networking: Twitter, Tumblr, LinkedIn, Facebook, flickr, Skype, yahoo, YouTube, WhatsApp.

UNIT-II: (08 hrs)

E-mail: Definition of E-mail- Advantages and Disadvantages- User Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management.

G-Suite: Google drive, Google documents, Google spread sheets, Google Slides and Google forms.

UNIT-III: (10 hrs)

Overview of Internet security, E-mail threats and secure E-mail, Viruses and antivirus software, Firewalls, Cryptography, Digital signatures, Copyright issues.

What are GOI

digital initiatives in higher education? (SWAYAM, Swayam Prabha, National Academic Depository)

tory, National Digital Library of India, E-Sodh-Sindhu, Virtual

labs,e-acharya,e-YantraandNPTEL).

RECOMMENDED CO-CURRICULAR ACTIVITIES:(04hrs)

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging)
2. Student seminars (on topics of the syllabus and related aspects (individual activity))
1. Quiz and Group Discussion
3. Slip Test
4. Try to solve MCQ's available online.
5. Suggested student handson activities:
 - a. Create your accounts for the above social networking sites and explore them, establish a video conference using Skype.
 - b. Create an Email account for yourself-Send an email with two attachments to another friend. Group the email addresses use address folder.
 - c. Register for one online course through any of the online learning platforms like NPTEL, SWAYAM, Alison, Codecademy, Coursera. Create a registration form for your college campus placement through Google forms.

Reference Books:

1. In-line/On-line: Fundamentals of the Internet and the World Wide Web, 2/e- by Raymond Greenlaw and Ellen Hepp, Publishers: TMH
2. Internet technology and Web design, ISRD group, TMH.
3. Information Technology- The breaking wave, Dennis P. Curtin, Kim Foley, Kunai Sen and Cathleen Morin, TMH.

B.Vocationalcourse
Dairying & Animal husbandry
2020-21 Admitted Batch
I Year Semester- II
INFORMATION AND COMMUNICATION
TECHNOLOGY
MODELQUESTIONPAPER

Max.Marks:50

Time:1½hrs (90Minutes)

SECTION-A (4x5M=20Marks)

Answeranyfourquestions.Eachanswer carries5marks
(At least1 question should begivenfrom eachUnit)

1. Write the applications of Internet.
2. Write about URL
3. What is IP address?
4. Define Lynx?
5. How to create and share a presentation using Google Docs?
6. What are different ways of learning on the Internet?
7. What is spyware? Write about different types of spyware.
8. Write about firewalls.

SECTION-B (3x10M=30Marks)

Answeranythreequestions.Eachanswer carries10marks
(Atleast1 question should begivenfrom eachUnit)

1. Explain how the www works in Internet?
2. What is yahoo? Explain its features.
3. What is composition of an E-mail message?
4. What is Google forms? How to create a Google forms document? Explain its feature.
5. What is a computer worm? What are different types of computer worms?

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
PET AND ZOO ANIMALS MANAGEMENT
(Credits 2+0=2)

UNIT-1

Important breeds of dogs and cats. Feeding of dogs, cats, deworming & vaccination schedule
Dog show: preparation for show, kennel clubs, important characteristics for judgment.

UNIT-2

Utility of dogs -
guarding, defense, patrolling, riot control, scouting, espionage, mine detection, tracking, guiding, hunting, races, retrieving rescue and other uses.

UNIT-3

conservation practices of wildlife in India.
Basic principles of habitat and housing of various classes of wild zoo animals. Feeding habits, feeds and feeding schedules of captive animals.
Restraining, capture, handling, physical examination of captive animals. Classification of zoos, management of sanctuaries, national parks etc.

Reference books:

1. Animal care
2. Animal behaviour, welfare and management
3. Dictionary of zoobiology and animal management
4. Small animal care and management

Kimberly Lord
Geoff Hosey
Paul A Rees
Dean Warren

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
PET AND ZOO ANIMALS MANAGEMENT
(Credits 2+0=2) M

Model paper

Time: 1 ½ hrs

Maximum: 50 marks

SECTION – A

Answer any **Four** questions. Each question carries five marks.

(4*5=20)

1. What are the various dog breeds used for guarding purpose. Explain their characteristic.
2. Explain the conservative practices of wildlife in India
3. Explain the principles of feeding of pet dogs.
4. What is dog show. Explain the guidelines and procedure for conducting dog show.
5. Describe the management of a sanctuary.
6. Name the important cat breed and describe their characteristics.
7. Name some zoo animals and explain the basic principles of their habitat.

SECTION – B

Answer any **three** Questions. Each question carries ten marks

(3*10=30)

1. List out the Dog breeds used for patrolling purpose. Explain their characteristics.
2. Explain in detail the feeding habits of captive animals.
3. Classify zoological parks. Name the zoological parks in India.
4. Name different toy breeds and describe their characteristics.
5. What are the various methods of restraining of captive animals.

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
DAIRY FARM GENERAL MANAGEMENT
(Credits 2+0=2)

UNIT-1

Economic dairy farming.
Housing for dairy animals-
objectives, advantages of adequate housing, selection of site and layout of dairy farm, Different systems of housing.
Day to day practices-equipment

UNIT-2

Transport of dairy
animals. Care of newly born calf.
Care and management of heifers, pregnant animals, dry stock, breeding bulls.

UNIT-3

Sanitary milk production.
Common dairy farm management practices viz. marking, dehorning/ disbudding, age determination, grooming etc.

Reference books:

1. A Text Book of Livestock Production and Management Shraddha Shrivastava, V.N. Gautam
2. LIVESTOCK PRODUCTION MANAGEMENT Dr. Nilotpal Ghosh
3. Livestock Production Management NSR SASTRY, CK THOMAS

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
DAIRY FARM GENERAL MANAGEMENT
(Credits 2+0=2) M

Model paper

Time: 1 ½ hrs

Maximum: 50 marks

SECTION – A

Answer any Four questions. Each question carries equal marks. (4x5m=20)

1. Write in detail about care of newborn calf.
2. Write in detail about transport of animals.
3. Write in detail about care of pregnant animals.
4. Write in detail about clean milk production.
5. Write in detail about layout of dairy farm.
6. Write in detail about dehorning.
7. Write in detail about dentition and age determination in farm animals.

SECTION – B

Answer any Three questions. Each question carries ten marks (3x10m=30)

1. Write in detail about housing of dairy animals, objectives, advantages of adequate housing.
2. Write in detail about day-to-day practices in dairy farm and also equipment used.
3. Write in detail about an economic dairy farm.
4. Write in brief about site selection and different housing systems.
5. Write in detail about care and management of breeding bulls and dry stock.

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
LIVESTOCK PRODUCTION AND MANAGEMENT
(Credits 4+2=6)

UNIT-1

Demographic distribution of livestock and role in Indian economy. Problems and prospects of livestock industry in India.
Common animal husbandry terms.
(glossary) Body conformation and identification.

UNIT-2

Transportation of livestock and wild or zoo animals.
Common farm management practices including disinfection, isolation, quarantine and disposal of carcass.
Housing systems, layout and design of different buildings for animals. Selection of site. General principles affecting the design and construction of building for housing for various livestock species

UNIT-3

General management and feeding practices of calves, heifers, pregnant, lactating and dry animals, bulls and working animals
Breeding schedule and management of ram and buck
Introduction to methods of drug administration.

UNIT-4

Common vices of animals (Cattle, Buffalo, Sheep, Goat,) their prevention and care. Livestock production systems. Animal holding and land holding patterns in different agro-climatic zones. Organic livestock production.

UNIT-5

Judging and BCS for body parts of livestock. Preparation of animals for show. Culling of animals. Selection and purchase of livestock
Methods of milking and precautions

PRACTICALS:

Visit to different animal farms and Identification of various breeds of cattle, buffalo, sheep and Goat.
Identification of common tools used on animal farm. Familiarization with body points of animals.
Methods of identification (marking, tattooing, branding, tagging and electronic chip under pre-emptive analgesia).
Use of rope for knot and halter making. Dentition and age of animals.
Preparation of animals for show and judging. Selection and culling of animals.
Preparation of project proposal
Humane handling and restraining of cattle, buffalo, sheep and Goat. Clipping, shearing, dipping, spraying and spotting sick animals.

Determination of body weight using different methods.
Familiarization with routine cattle, buffalo, sheep and goat farm operations. Milking of dairy animals.

Referencebooks:

- | | |
|---|--|
| 2.A TextBookofLivestock ProductionandManagement | ShraddhaShrivastava,V.N.
Gautam |
| 2. LIVESTOCKPRODUCTION MANAGEMENT | Dr.NilotpaiGhsoh |
| 3. LivestockProductionManagement | NSRSTRY, CKTHOMAS |
| 4. LivestockProduction | JAVEDK,INTECH |
| 5. LivestockProductionAndManagement | PankajKumarSingh,Thakur
KrishnaShankarRao |
| 6. AdvancesIn Livestock Production Management | SunilKukar, Birendra Kumar
Misra AndManishKumar |

ANDHRA UNIVERSITY
B.Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
LIVESTOCK PRODUCTION AND MANAGEMENT
(Credits 4+2=6)

Model paper

Time: 3hrs

Maximum: 75 marks

SECTION–A

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

1. Describe the procedure of humane handling and restraining of cattle, buffalo, sheep and Goat.
2. Explain in detail the procedure of large animal carcass disposal.
3. What are the precautions to be followed while milking.
4. Explain the disinfection procedure of dairy farm and what are the various disinfectants used.
5. Explain the requirements, layout and design of cattle shed for 10 buffalos.
6. Explain about the dentition and aging of livestock.
7. What are the common vices of animals and how to prevent them.
8. What is quarantine? Explain in detail.

SECTION–B

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

1. A) What are the different methods employed for determination of body weight of animal.
(or)
B) What is livestock show. Explain the procedure for conducting livestock show and judging of animals.
2. A) Describe the breeding schedule and management of ram and buck.
(or)
B) What are the various methods of drug administration in livestock.
3. A) What are the various methods of identification of livestock.
(or)
B) Describe the rules of transportation of livestock.
4. A) Describe the role of livestock in Indian economy.
(or)
B) What is INAPH. Explain in detail.
5. A) Explain in detail the procedure for culling of animals. (or)

B) Prepare a project report for running a dairy farm of 100 animals.

ANDHRA UNIVERSITY
B.Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
AVIAN PRODUCTION MANAGEMENT
(Credits 4+2=6)

UNIT-1

Growth of poultry
industry
Classification of
poultry

UNIT-2

Scavenging system of
management
Brooding management
Care and growth management
Care and management
of layers
Care and management of
broilers

UNIT-3

Feeding management
Classification of nutrients-
Nutrient requirements and Feeding systems
Additives and supplements.
Water management.

UNIT-4

Egg formation.
Egg structure-
Physical and chemical composition.
Incubation of eggs.

UNIT-5

Marketing of poultry and poultry products.
Health care for common poultry diseases-
vaccination.
General principles of poultry medication.

PRACTICALS

- Common breeds of poultry, different classes, Indian chickens and other avian species breeds.
- Digestive and respiratory system of chicken.
- Male and female reproductive system-
- Economic traits of broilers, Layers and breeders.
- Housing and design of a poultry farm.
- Poultry farm equipment and their classification.
- Brooding arrangement in broiler farms.
- Poultry feed ingredients and its quality assessment and feed preparations.
- Fundamentals in poultry Post-mortem examination for sample collection.
- Collection and dispatch of samples for PM examination.
- Management during summer, winter and Rainy season.
- Automation in poultry farms (Ehouse).

Reference books:

- | | |
|--|-----------------------------|
| 1. Manual on Avian Production and Management | Ghosh Nilotpal, IBDC |
| 2. Practical manual of avian production and management | Jadhav |
| 3. Handbook of Poultry Production and Management | MF Siddique |
| 4. Livestock Production Management | N S R sastry, C
K Thomas |
| 5. Livestock Production | Javedk, intech |

ANDHRA UNIVERSITY
B.Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
AVIAN PRODUCTION MANAGEMENT
(Credits 4+2=6)

Model paper

Time: 3hrs

Maximum: 75 marks

SECTION – A

Answer any **FIVE** questions. Each question carries Five marks.

(5*5=25)

1. Describe the digestive system of chicken with diagram.
2. Indian poultry industry – give an overview.
3. Describe the brooding arrangements in farm.
4. Explain the principles of disease prevention and management.
5. Give the layout of a poultry shed. Explain the influence of environmental factors in poultry housing.
6. Give the outlines of poultry classification.
7. Describe the female reproductive system of poultry.
8. What are the general preparations of poultry medication?

SECTION – B

Answer All the questions. Each question carries Ten marks

(5*10 = 50)

1. A) Write in detail the incubation of eggs in poultry farm.
(or)
B) Principles of management of poultry during Summer, winter and rainy seasons.
2. A) Describe the structure of egg. Explain its physical and chemical composition. (or)
B) Give detailed classification of poultry with respect to production characteristics.
3. A) What are the common breeds of poultry. Explain in detail.
(or)
B) Explain management of deep litter. How to control litter born diseases.
4. A) What are the nutrient requirements of layers and broilers. Describe various feeding systems.
(or)
B) What is cage system. What are the advantages and disadvantages of cage system.
5. A) Explain in detail the vaccination schedule of layer birds.
(or)
B) What are the various strains/breeds developed for back yard poultry production.

ANDHRA UNIVERSITY
B.Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
ANIMAL GENETICS AND BREEDING
(Credits 4+2=6)

UNIT-1

Introduction and importance of statistics and their function
Definitions, collection and classification of data
Presentation of data
Theory of sampling

UNIT-2

Introduction to genetics, applications, history of genetics
Chromosome structure, numbers
Cell division- mitosis, meiosis
Gametogenesis-spermatogenesis, oogenesis

UNIT-3

Mendel's experiments, exceptions to Mendel's experiments
Modified Mendelian inheritance
Multiple alleles
Sex-linked inheritance
Crossing over

UNIT-4

Mapping - Chromosome mapping, genetic map
Changes in genetic material-mutations
Gene concept

UNIT-5

Animal breeding-
Introduction
Selection
Systems of breeding- inbreeding, grading, crossbreeding, outcrossing
Economic traits and their importance

PRACTICALS

Monohybrid, Dihybrid cross and Multiple alleles.
Modified Mendelian inheritance and sex linked inheritance. Linkage and crossing over.
Demonstration of Karyotyping in farm animals.
Calculation of gene and genotypic frequencies, Estimation of repeatability, heritability, genetic and phenotypic correlations.
Estimation of inbreeding and relationship coefficient.

Estimation of heterosis. Computation of sire indices. Computation of selection index.

Reference books:

- | | |
|--|---------------------------------|
| 1. Textbook of Animal Genetics and Breeding | <u>Nada Ben Abdallah</u> |
| 2. Text Book On Animal Genetics Breeding
NSrivastava, BCSarkhel | H K B Paresh, P |
| 3. Animal Genetics and Breeding
<u>Tomar, Dr Rajbeer Singh</u> | <u>Dr Arun Kumar</u> |
| 4. Textbook Of Animal Breeding | Dr. S.S. Tomar |
| 5. Animal Breeding | Gerald Weiner |
| 6. Veterinary Genetics | F.W. Nicholas |
| 7. Genetics of Livestock Improvement | John F. Lasley |
| 8. Breeding and improvement of farm animal | Warwick, E.J. and Legates, J.E. |

ANDHRA UNIVERSITY
B.Vocational
course Dairying & Animal
husbandry
I Year – Semester
II 2020-
21 Admitted batch
ANIMAL GENETICS AND BREEDING
(Credits 4+2=6)

Model paper

Time: 3hrs

Maximum: 75 marks

SECTION - A

Answer any **FIVE** questions. Each question carries Five marks.

(5*5=25)

1. What are the economic traits in poultry and write their importance?
2. What is selection? Write in detail.
3. What are multiple alleles write in detail.
4. Draw neat diagram of structure of chromosome and explain
5. Write in detail about importance of statistics
6. What is theory of sampling write in detail.
7. Write down differences between mitosis and meiosis?
8. Write in detail about oogenesis?

SECTION - B

Answer All the questions. Each question carries Ten marks

(5*10=50)

1. Write in detail about collection, classification and presentation of data?
Or
Write in detail about history and applications of genetics?
2. What is cell division, write in detail about events of cell division with neat diagrams.
Or
What is gametogenesis? Write in detail about the process of spermatogenesis.
3. Write in detail about sex linked, sex influenced & sex limited inheritance?
Or
Write in detail about linkage and crossing over?
4. Write in detail about chromosomal mapping
Or
Write in detail about mutations.
5. Write about the systems of breeding in detail.
Or
Write down the economic traits in cattle and their importance