

ANDHRA UNIVERSITY
B.Vocational
course Dairying & Animal
husbandry
I Year – Semester I
2020-21 Admitted batch
English-1
(Credits 3+0=3)

By the end of the course the learner will be able to:

- Use grammar effectively in writing and speaking.
- Demonstrate the use of good vocabulary
- Demonstrate an understanding of writing skills
- Acquire ability to use Soft Skills in professional and daily life.
- Confidently use the tools of communication skills

I. UNIT: Listening Skills

- i. Importance of Listening
- ii. Types of Listening
- iii. Barriers to Listening
- iv. Effective Listening

II. UNIT: Speaking Skills

- a. Sounds of English: Vowels and Consonants
- b. Word Accent
- c. Intonation

III. UNIT: Grammar

- a) Concord
- b) Modals
- c) Tenses (Present/Past/Future)
- d) Articles
- e) Prepositions
- f) Question Tags
- g) Sentence Transformation (Voice, Reported Speech & Degrees of Comparison)
- h) Error Correction

IV. UNIT: Writing

- i. Punctuation
- ii. Spelling
- iii. Paragraph Writing

V. UNIT: Soft Skills

- a. SWOC
- b. Attitude
- c. Emotional Intelligence
- d. Telephone Etiquette
- e. Interpersonal Skills

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I Year - Semester I
ENGLISH - 1
MODEL QUESTION PAPER

Max. Marks: 75

Time: 3 hrs

UNIT-I

1. Answer any three of the following questions (3*5=15)

- a. b. c. d. e.

UNIT-II

2. Read the following transcriptions and write the spelling (5*1=5)

- a. b. c. d. e.

3. Mark the STRESS of the following words (3*1=3)

- a. b. c.

4. mark and name the TONE of the following words (2*1=2)

- a. b.

UNIT-III

5. Use appropriate MODELS in the following sentences (2*1=2)

- a. b.

6. fill in the blanks with suitable verb forms (5*1=5)

- a. b. c. d. e.

7. fill in the blanks with suitable ARTICLES (2*1=2)

- a. b.

8. fill in the blanks with suitable PREPOSITIONS (2*1=2)

- a. b.

9. rewrite the sentences as directed (9*1=9)

- a. b. c. d. e. f. g. h. i.

10. rewrite the following sentences correcting the underlined part (5*1=5)

- a. b. c. d. e.

UNIT-IV

11. Punctuate the following lines (1*3=3)

12. write correct spelling for the following words (4*0.5=2)

- a. b. c. d.

13. write a paragraph on any one of the following topics (1*5=5)

- a. b.

UNIT-V

14. Answer any three of the following questions (3*5=15)

- a. b. c. d. e.

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U
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♦ అభ్యసన ఫలితాలు:-

ఈ కోర్సు విజయవంతంగా ముగించాక, విద్యార్థులు క్రింది అభ్యసన ఫలితాలను పొందగలరు.

1. ప్రాచీన తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను గుర్తిస్తారు. తెలుగు సాహిత్యంలో ఆదికవి నన్నయ కాలం నాటి భాషా సంస్కృతులను, ఇతిహాస కాలం నాటి రాజనీతి విషయాలపట్ల పరిజ్ఞానాన్ని సంపాదించగలరు.
2. శివకవుల కాలం నాటి మతపరిస్థితులను, భాషావిశేషాలను గ్రహిస్తారు. తెలుగు నుడికారం, సామెతలు, లోకోక్తులు మొదలైన భాషాంశాల పట్ల పరిజ్ఞానాన్ని పొందగలరు.
3. తిక్కన భారతం నాటి మత, ధార్మిక పరిస్థితులను, తిక్కన కవితా శిల్పాన్ని, నాటకీయతను అవగాహన చేసుకోగలరు.
4. ఎఱ్ఱన సూక్తివైచిత్రిని, ఇతిహాస కవిత్యంలోని విభిన్న రీతులపట్ల అభిరుచిని పొందగలరు. శ్రీనాథుని కాలం నాటి కవితావిశేషాలను, మొల్ల కవితా విశిష్టతను గుర్తించగలరు.
5. తెలుగు పద్యం స్వరూప-స్వభావాలను, సాహిత్యాభిరుచిని పెంపొందించుకుంటారు. ప్రాచీన కావ్యభాషలోని వ్యాకరణాంశాలను అధ్యయనం చేయడం ద్వారా భాషా సామర్థ్యాన్ని, రచనల మేళకువలను గ్రహించగలరు.

పాఠ్య ప్రణాళిక

యూనిట్-I

రాజనీతి

- సన్నయ
మహాభారతం-సభాపర్వం-ప్రథమాశ్వాసం-(26-57 పద్యాలు)

యూనిట్-II

దక్షయజ్ఞం

- నన్నెచోడుడు
కుమారసంభవం-ద్వితీయాశ్వాసం-(49-86 పద్యాలు)

యూనిట్-III

ధౌమ్య ధర్మోపదేశము

- తిక్కన
మహాభారతం-విరాటపర్వం-ప్రథమాశ్వాసం-(116-146) పద్యాలు

యూనిట్-IV

పలనాటి బెబ్బలి

- శ్రీనాథుడు (పలనాటి వీరచరిత్ర-ద్విపద కావ్యం పుట 108-112
'బాలచంద్రుడు భీమంబగు సంగ్రామం బొనర్చుట.. (108)..
..... వెఱగంది కుంది' (112) సం. అక్కిరాజు ఉమాకాంతం
ముద్రణ.వి.కె.స్వామి, బెజవాడ 1911.

యూనిట్-V

సీతారావణ సంవాదం

- మొల్ల
రామాయణము-సుందరకాండము-(40-87 పద్యాలు)

♦వ్యాకరణం

సంధులు: ఉత్ప, త్రిక, ద్రుతప్రకృతిక, నుగాగమ,ద్విరుక్తటకారాదేశ, యణాదేశ, వృద్ధి, శ్చుత్వ, జశ్వ, అనునాసిక సంధులు.

సమాసాలు: అవ్యయిభావ, తత్పురుష, కర్మధారయ, ద్వంద్వ, ద్విగు, బహువ్రీహి.

అలంకారాలు:

అర్థాలంకారాలు : ఉపమ, ఉత్పేక్ష, రూపక, స్వభావోక్తి, అర్థాంతరవ్యాస, అతిశయోక్తి.

శబ్దాలంకారాలు : అనుప్రాస (వృత్తానుప్రాస, ఛేకానుప్రాస లాటానుప్రాస, అంత్యానుప్రాస)

ఛందస్సు

వృత్తాలు: ఉత్పలమాల, చంపకమాల, శార్దూలము, మత్తేభము;

జాతులు : కందం, ద్విపద; ఉపజాతులు : ఆటవెలది, తేటగీతి, సీసం మరియు ముత్యాలసరాలు

ఆధార గ్రంథాలు:

1. శ్రీమదాంధ్ర మహాభారతము : సభాపర్వము-తిరుమల తిరుపతి దేవస్థానం ప్రచురణ
2. శ్రీమదాంధ్ర మహాభారతము : విరాటపర్వము-తిరుమల తిరుపతి దేవస్థానం ప్రచురణ
3. కుమార సంభవం - నన్నెచోడుడు
4. పలనాటి వీరచరిత్ర - శ్రీనాథుడు
5. రామాయణము - మొల్ల

+ సూచించబడిన సహపాఠ్య కార్యక్రమాలు:

1. నన్నయ్య, తిక్కన, ఎఱ్ఱన మొదలైన ప్రసిద్ధ కవుల పాఠ్యాంశేతర పద్యాలను ఇచ్చి, విద్యార్థులచేత సమీక్షలు రాయించడం; ఆయా పద్యాల్లోని యతిప్రాసాది ఛందోవిశేషాలను గుర్తింపజేయడం.
2. విద్యార్థులచేత పాఠ్యాంశాలకు సంబంధించిన వ్యాసాలు రాయించడం (సెమినార్/అసైన్మెంట్)
3. ప్రాచీన పాఠ్యాంశాలలోని సమకాలీనతను గూర్చిన బృంద చర్చ, ప్రాచీన సాహిత్యాన్ని నేటి సామాజిక దృష్టితో పునర్మూల్యాంకనం చేయించడం.
4. చారిత్రిక, సాంస్కృతిక అంశాలకు సంబంధించిన పర్యాటక ప్రదేశాలను సందర్శించడం.
5. వ్యక్తిగత/బృంద ప్రాజెక్టులు చేయించడం. ప్రశ్నాపత్ర నిర్మాతలకు సూచనలు ప్రతిపదార్థ పద్యాలు, కంఠస్థ పద్యాలు “రాజనీతి, దక్షయజ్ఞం, ధౌమ్య ధర్మోపదేశం, సీతారావణ సంవాదం” అనే నాలుగు పాఠ్యాంశాల నుండి మాత్రమే ఇవ్వాలి.

ప్రశ్నాపత్ర నమూనా

అ. ప్రతిపదార్థ పద్యాలు-(అంతర్గత ఛాయీస్) (2-1)	1×8=8 మా
ఆ. కంఠస్థ పద్యం-(అంతర్గత ఛాయీస్) (2-1)	1×3=3 మా
ఇ. సందర్భ వాక్యాలు-	(6-4) 4×3=12 మా
ఈ. సంగ్రహ సమాధాన ప్రశ్నలు (6-4)	4×3=12 మా
ఉ. వ్యాస ప్రశ్నలు (అంతర్గత ఛాయీస్) (6-3)	3×8=24 మా
ఊ. వ్యాకరణం-సంధులు (6-4)	4×1=4 మా
సమాసాలు (6-4)	4×1=4 మా
అలంకారాలు (2-1)	1×4=4 మా
ఛందస్సు (2-1)	1×4=4 మా

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
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I Year – Semester
I 2020-21 Admitted batch
HUMAN VALUES AND PROFESSIONAL ETHICS
(Credits 2+0=2)

Learning Outcome:

On completion of this course, the UG students will be able to

- Understand the significance of value inputs in a classroom and start applying them in their life and profession
- Distinguish between values and skills, happiness and accumulation of physical facilities, the Self and the Body, Intention and Competence of an individual, etc.
- Understand the value of harmonious relationship based on trust and respect in their life and profession
- Understand the role of a human being in ensuring harmony in society and nature. Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

UNIT: 1 Introduction – Definition, Importance, Process & Classifications of Value Education

Understanding the need, basic guidelines, content and process for Value Education
Understanding the thought provoking issues; need for Values in our daily life
Choices making – Choosing, Cherishing & Acting
Classification of Value Education: understanding Personal Values, Social Values, Moral Values & Spiritual Values.

UNIT: 2 Harmony in the Family –

Understanding Values in Human Relationships
Understanding harmony in the Family – the basic unit of

human interaction
Understanding the set of proposals to verify the Harmony in the Family; Trust (Vishwas) and Respect (Samman) as the foundational values of relationship
Present Scenario: Differentiation (Disrespect) in relationships on the basis of body, physical facilities, or beliefs.

Understanding the Problems faced due to differentiation in Relationships
Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astitva as comprehensive Human Goals

Visualizing a universal harmonious order in society – Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) – from family to world family.

UNIT: 3 Professional Ethics in Education

Understanding about Professional Integrity, Respect & Equality, Privacy, Building Trusting Relationships.

Understanding the concepts; Positive co-operation, Respecting the competence of other professions.

Understanding about Taking initiative and Promoting the culture of openness. Depicting Loyalty towards Goals and objectives.

TextBooks:

R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.

Bhatia, R. & Bhatia, A (2015) Role of Ethical Values in Indian Higher Education.

References:

- • Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and Harper Collins, U
- • E. F. Schumacher, 1973, Small is Beautiful: a study of economics as if people mattered, Blond & Briggs, Britain.
- • Susan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991
- • Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth – Club of Rome's report, Universe Books.
- • A Nagraj, 1998, Jeevan Vidya Ek Parichay, Divya Path Sansthan, Amarkantak.
- • P L Dhar, R R Gaur, 1990, Science and Humanism, Commonwealth Publishers.
- • A N Tripathy, 2003, Human Values, New Age International Publishers.

Mode of Evaluation:

Assignment/Seminar/Continuous Assessment Test/Semester End Exam.

Cocurricular Activities:

1. Visit to an Old Age Home and spending with the inmates for a day.
2. Conduct of Group Discussion on the topics related to the syllabus.
3. Participation in community service activities.
4. Working with a NGO like Rotary Club or Lions International, etc.

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HUMAN VALUES AND PROFESSIONAL ETHICS
MODEL QUESTION PAPER

Max. Marks: 50

Time: 1½ hrs (90 Minutes)

SECTION-A

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

(4x5M=20Marks)

1. Define respect
2. What do you understand by professional integrity?
3. What do you mean by prosperity?
4. Define trust
5. Write about social values
6. Explain the concept of universal order
7. What do you understand by positive cooperation?
8. Explain briefly about loyalty towards goals and objectives

SECTION-B

Answer all questions. Each answer carries 10 marks

(At least 1 question should be given from each Unit)(3x10M = 30Marks)

9. (A) Define value education and discuss its significance
OR
(B) Write about the set of proposals to verify the harmony in the family.
10. (A) Write about the promoting the culture of openness
OR
(B) Elaborate on the problems faced due to differentiation in relationships
11. (A) Discuss how the values help us in making choices in our daily lives
OR
(B) Explain the importance of harmony in the society

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VETERINARIAN IN SOCIETY
(Credits 2+0=2)

UNIT-1

Man, animal and society. Client dealing. Client oriented approach to physical examination of animals. Veterinary public health as component of society. Human animal bond.

UNIT-2

veterinarians interaction with health, drug and food regulatory authorities. Social responsibilities of Veterinarians in public hospital and practice management Professional development. prevention activities.

UNIT-3

Disaster management. Role of the Veterinary services in food safety. Role of Veterinarian in Natural calamities.

References:

<https://www.drvet.in/p/e-books.html>

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VETERINARIAN IN SOCIETY
(Credits 2+0=2) M

Model Paper

Time: 1 ½ hrs (90 minutes)

Maximum: 50 marks

SECTION – A

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

(4*5=20)

- 1) Write in detail about physical examination of an animal?
- 2) Name some veterinary institutes?
- 3) What are the food regulatory authorities?
- 4) What are the drug regulatory authorities?
- 5) What are the important components of client dealing?
- 6) Benefits of pets for people?
- 7) Write in detail about meat inspection?

SECTION – B

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

(3*10=30)

- 1) Write in detail about societal responsibilities of Veterinarians?
- 2) Define Public health? Discuss in detail about role of Veterinarian and Public health?
- 3) What are Natural calamities? Role of Veterinarian in Natural calamities?
- 4) Role of Veterinarian in food safety?
- 5) Write in detail about prevention activities before disaster seasons. And write down response activities also.

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BASIC SOF VETERINARY ANATOMY
(Credits 4+2=6)

UNIT-1

Introduction to anatomy and branches of anatomy and descriptive terms used in anatomy and study of anatomical planes. General Osteology. Study of structure of bone. Study of skeletal system and different bones of cow. General arthrology. Study of different joints. General myology. Study of muscles of different regions of the body (**excluding origin, insertion, blood supply & nerves supply**).

UNIT-2

Splanchnology. Study of different boundaries of thoracic, abdominal and pelvic cavities. Study of digestive systems of cow. Study of salivary glands, liver, pancreas, and spleen. Study of respiratory system and urinary system. Study of male and female genital systems. Study of mammary gland of cow.

UNIT-3

Study of skeletal system of dog. Study of digestive, respiratory, and urogenital systems of dog and poultry.

UNIT-4

Angiology. Study of heart and systemic circulation. Study of major blood vessels. Blood supply to brain and different internal organs. Lymphatic system. Position of different lymph nodes.

UNIT-5

Neurology. Study of neuron, nerve trunk, meninges, brain and spinal cord. Study of cranial nerves, spinal nerves, brachial plexus, lumbo sacral plexus. Organs of special senses. Study of eye, ear, skin, and hoof. Study of endocrine glands.

PRACTICALS

- Demonstration of bones of different species.
- Demonstration of organs of digestive, respiratory and urogenital systems.
- Study of rumen, reticulum, omasum and abomasum of ox.
- Study of digestive system of dog.
- Study of digestive system of poultry
- Identification of boundaries of thoracic, abdominal and pelvic cavities.

Reference books:

Textbook of Veterinary Anatomy

R.K. Ghosh

Textbook of Veterinary Anatomy

K.M. Dyce

Introduction to Veterinary Anatomy

[VictoriaAspinalIBVScMRCVS](#),MelanieCappelloBS

c(Hons)

ANDHRA UNIVERSITY
B. Vocational
course Dairying & Animal
husbandry
I Year – Semester
I 2020-21 Admitted batch
BASIC SOF VETERINARY ANATOMY
(Credits 4+2=6) M
odel paper

Time: 3hrs

Maximum: 75 marks

SECTION – A

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

1. List out various branches of Anatomy and explain them in brief.
2. Describe the functions of rumen, reticulum, omasum and abomasum in ox.
3. What is pelvic cavity? Explain in detail.
4. Explain the location of various organs in the thoracic cavity.
5. List out the cranial nerves, blood vessels and lymph nodes of head and neck region.
6. Draw the diagram of digestive system of dog, label the parts and explain in brief the different parts.
7. Write in detail about respiratory system of poultry.
8. Write in detail about mammary gland in cow.

SECTION – B

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

1. A) Write the borders of abdominal cavity and what are the various organs located in the abdominal cavity.
(or)
B) Draw the diagrams and explain the structure of Femur and Humerus.
2. A) How to determine the age by dentition in Ox?
(or)
B) What is linea alba. Describe its formation.
3. A) Describe the digestive system of poultry.
(or)
B) Describe the stifle joint of ox.
4. A) Write in detail about sense organs.
(or)
B) What is brachial plexus. Explain in detail.
5. A) Draw the diagram of female reproductive system of ox and label the different components.
(or)
B) Explain the functioning of heart with the help of a well-labelled diagram.

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VETERINARY PHYSIOLOGY
(Credits 4+2=6)

UNIT-1

Introduction to Blood; Properties of blood as a body fluid, plasma, its functions, serum, erythropoiesis, factors influencing erythropoiesis, fate of R.B.C;
Hemoglobin- chemical structure, physiological functions, derivatives of hemoglobin; Leucocytes, differential leucocyte count.
Thrombocytes, Haemorrhage haemostasis.
Blood groups.

UNIT-2

Physiology of the gastrointestinal tract of ruminants and monogastric animals
Prehension, defecation; vomition; function of saliva, stomach, intestine, pancreas; bile secretion; hunger, appetite control, developmental aspects of digestion.
Oesophageal groove, rumination, fermentation.

UNIT-3

Physiology of respiration and mechanics of breathing. Transport of blood gases, foetal and neonatal oxygen transport.
Physiology of excretory system, nephron structure, urine formation.

UNIT-4

Introduction and basics of endocrinology. Major endocrine glands and their hormones.
Hormones and their action on different systems of the body.

UNIT-5

Physiology of Puberty. Physiology of reproduction in male, spermatogenesis. Physiology of reproduction in female, folliculogenesis, ovulation, estrus cycles. Mating behaviour, fertilization, parturition.
Lactation.

PRACTICALS

Collection of blood samples - Separation of serum and plasma
Enumeration of erythrocytes.
Enumeration of leucocytes. Differential leucocytic count
Platelet count.
Estimation of haemoglobin.
Haematocrit-erythrocyte sedimentation rate-packed cell volume -coagulation time-bleeding time
Counting of rumen motility

Urine analysis-
physiological constituents and pathological determinates
Behavioural signs
of oestrus.

Sperm motility.

Sperm concentration-live and dead-abnormal sperm count.

Health parameters of animals-body temperature, pulse, respiration and heart rate.

Reference books:

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|---------------------------------------|------------------------------|
| 1. Textbook of Veterinary Physiology | Bradley Klein, Elsevier |
| 2. Animal physiology | M. Armugam, A. Mariakuttukam |
| 3. Physiology of domestic animals | Dukes |
| 4. Text book of Veterinary physiology | B. Bhattacharya |

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I Year – Semester
I 2020-21 Admitted batch
VETERINARY PHYSIOLOGY
(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. Write in detail about erythropoiesis and fate of RBC
2. Functions of saliva in ruminant and monogastric animals
3. Write in detail about structure of nephron and various factors affecting glomerular filtration rate.
4. Explain oesophageal groove.
5. What is estrus cycle? Briefly explain estrus behaviour.
6. Explain briefly about milking reflex in a cow.

SECTION – B

Answer All the questions. Each question carries **TEN** marks

(5*10=50)

1. A) Explain oesophageal groove reflex
(or)
B) Describe in detail the hormones secreted by Hypothalamus
2. A) Explain the transport of blood gases
(or)
B) pulmonary volumes and pulmonary capacities.
3. A) What are the functions of kidney? Draw the structure of nephron & explain. (or)
B) write in detail about thermoregulation in scrotum.
4. A) write in detail about spermatogenesis.
(or)
B) Write down the endocrine activity of GIT.
5. A) What are the functions of bile
(or)
B) Explain in detail about lactogenesis in cow.

ANDHRA UNIVERSITY
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I Year – Semester
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VETERINARY BIOCHEMISTRY
(Credits 4+2=6)

UNIT-1

Scope and Importance of Biochemistry

Disorders of Carbohydrate Metabolism: Diabetes mellitus, Ketosis, Bovine Ketosis, Pregnancy toxemia, hypoglycaemia in baby pigs, hyperinsulinism in Dogs.

Hormonal control of carbohydrate metabolism and regulation of blood sugar.

UNIT-2

Biochemical tests for the detection of disturbance in carbohydrate metabolism. Plasma Proteins and clinical significance, Proteins and Dysproteinemias, Acute Phase proteins.

UNIT-3

Lipid Profile in disease diagnosis. Clinical Enzymology- Diagnostic importance of non-functional plasma enzymes and Isoenzymes,

UNIT-4

Liver function tests- Classification- Biochemical tests for differential diagnosis. Biochemical tests of renal function- Urine analysis- Role of BUN, Uric acid and Creatinine in diagnosis.

UNIT-5

Disturbance in acid base balance and its diagnosis.

Biochemistry of digestive disorders. Biochemistry of oxidative stress and shock. Biochemical basis of fluid therapy.

Practicals:

Detection of Pathological Constituents in Urine;

Assays of ALT and AST in Serum; Acute phase proteins (A or G Ratio);

Estimation of total serum cholesterol, Blood Urea Nitrogen, creatinine, serum bilirubin (Direct, Indirect and Total).

Principles of various diagnostic tests, normal and abnormal values in different species.

Reference books:

- | | |
|--|---|
| 1. Text book of Veterinary Biochemistry | R.S. Dhanotia |
| 2. Clinical Biochemistry of domestic animals | Charles E Cornelius |
| 3. Biochemistry of domestic animals | Jiro Jerry Kaneko, John W.; Harvey,
Michael L. Bruss |
| 4. Principles of Biochemistry | Lehinger |
| 5. Clinical Biochemistry of domestic animals | Jerry Kaneko, John W Harvey,
Michel L Bruss |
| 6. Clinical Biochemistry | Racek, Jaroslav |

ANDHRA UNIVERSITY
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I Year – Semester I
2020-
21 Admitted batch
VETERINARY BIOCHEMISTRY
(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. Enlist various digestive disorders in animals and explain any two in ruminates
2. Write in detail about various biochemical tests for renal function
3. What is ketosis? Explain about bovine Ketosis
4. Enlist various Liver function tests and biochemical significance of lactate dehydrogenase (LDH) and Alkaline phosphatase (ALP)
5. What are the different lipid profile tests used in veterinary practice?
6. What is an acid-base disturbance? What are the two systems that compensate for acid base disturbance?
7. What are indications of fluid therapy? Explain about biochemical basis of fluid therapy in veterinary practice?
8. Importance of Biochemistry and its significance for disease diagnosis in veterinary practice?

SECTION – B

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

1. A) What is Urine analysis
(or)
B) Explain the importance of Acute Phase proteins
2. A) Explain in detail the Diabetes mellitus in dogs (or)
B) Write about Hypoglycaemia in baby pigs
3. A) Write in detail the Metabolic acidosis
(or)
B) Describe hormonal control of carbohydrate metabolism
4. A) Diagnostic importance of non-functional plasma enzymes (or)
B) Hypothyroidism in dogs
5. A) Clinical significance of plasma proteins
(or)
B) Pregnancy toxemia in cattle