

Mahatma JyotibaFule College of Veterinaty& Animal Sciences, Chomu, Jaipur (Raj.)

Department of Veterinary Physiology and Biochemistry

Veterinary Physiology (Practical)

Credit Hours: 1

Unit- I: Blood, Cardiovascular, Nervous and Muscular Systems

Unit-II: Digestive and RespiratorySystems

Unit-III: Excretory and EndocrineSystems

Unit-IV: Reproduction, Lactation, Growth and Environmental Physiology

Duration of lecture Class: 3-2-2021to 20-10-2021

Sl. No.	Practical	Dates
UNIT- 1	(BLOOD, CARDIOVASCULAR, NERVOUS AND MUSCULAR SYSTEMS)	
1	Collection of blood samples - Separation of serum and plasma - Preservation of blood	3-2-2021
2	Enumeration of erythrocytes	10-2-2021
3	Enumeration of leucocytes	17-2-2021
4	Differential leucocytic count	24-2-2021
5	Platelet count	3-3-2021
6	Estimation of hemoglobin	10-3-2021
7	Determiration of erythrocyte sedimentation rate and packed cell volume	17-3-2021
8	Coagulation time and bleeding time	24-3-2021
9	Blood grouping	31-3-2021
10	Measurement of arterial blood pressure (Sphygmomanometry)	7-4-2021
11	Recording of ECG	15-4-2021
12	Erythrocyte fragility and viscosity	22-4-2021
UNIT-2	(DIGESTIVE AND RESPIRATORY SYSTEMS)	
13	Counting of rumen motility	28-4-2021
14	Estimation of volatile fatty acids and ammonia nitrogen in rumen liquor	5-5-2021
15	Bacterial and protozoal count.	12-5-2021
16	In-vitro action of proteolytic enzymes- Amylase, pepsin and trypsin	20-5-2021
17	Recording of respiration, spirometry.	26-5-2021
18	Recording of volume and capacities in different physiological states including determination of vital capacities.	2-6-2021
UNIT-3	(EXCRETORY AND ENDOCRINE SYSTEMS)	

19	Urine analysis-physiological constituents, pathological determinates	9-6-2021
20	Determination of Glomerular Filtration Rate	16-6-2021
21	Titerable acidity	23-6-2021
22	Determination of inorganic phosphorus	30-6-2021
23	Urine ammonia nitrogen and creatinine in urine	7-7-2021
24	Recording of rumenointestinal movements.	14-7-2021
25	Bio assay for tropic hormone.	22-7-2021
26	Demonstration of hormone estimation.	28-7-2021
UNIT-4	(REPRODUCTION, LACTATION, GROWTH AND ENVIRONMENTAL PHYSIOLOGY)	
27	Oestrus and phases of oestrous cycle in animals.	4-8-2021
28	Behavioural signs of oestrus.	11-8-2021
29	Sperm motility	19-8-2021
30	Sperm concentration	26-8-2021
31	Live and dead sperm	1-9-2021
32	Abnormal sperm count	8-9-2021
33	Measurement of growth in various species	15-9-2021
34	Measuring surface area of animals	22-9-2021
35	Health parameters of animals- body temperature, pulse, respiration and heart rate.	29-9-2021
36	Measurement of animal environmental conditions	6-10-2021
37	Behaviour of animals- mating behavior, feeding behaviour (liveorvideo, graphicorcomputer simulated demonstration).	20-10-2021