

LESSON PLAN FOR EVEN SEM
SESSION 2017-18

NAME OF ASSISTANT /ASSOCIATE PROFESSOR: DR. MEENU KALSI
CLASS/SECTION : B.SC IIND YEAR
SUBJECT : ZOOLOGY

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	Origin, Evolutionary tree of Amphibia.	Skeleton of <i>Scoliodon</i> , <i>Labeo</i> .
DAY2 DATE 2-1-18	Origin, Evolutionary tree of Amphibia.	Skeleton of <i>Rana</i> (Frog), <i>Varanus</i> .
DAY3 DATE 3-1-18	-----	Skeleton of <i>Scoliodon</i> , <i>Labeo</i> ,
DAY4 DATE 4-1-18	Type study of frog.	Skeleton of <i>Rana</i> (Frog), <i>Varanus</i> .
DAY5 DATE 5-1-18	Type study of frog.	Skeleton of <i>Scoliodon</i> , <i>Labeo</i> .
DAY6 DATE 6-1-18	Type study of frog.	Skeleton of <i>Rana</i> (Frog), <i>Varanus</i> .
DAY7 DATE 8-1-18	Type study of frog.	Skelton of Pigeon or <i>Gallus</i> and <i>Orcyctolagus</i> /rat.
DAY8 DATE 9-1-18	Type study of frog.	Palates of birds, skulls of dog & rabbit
DAY9 DATE 10-1-18	-----	Skelton of Pigeon or <i>Gallus</i> and <i>Orcyctolagus</i> /rat
DAY10 DATE 11-1-18	Parental Care in Amphibia.	Palates of birds, skulls of dog & rabbit
DAY11 DATE 12-1-18	Type study of Lizard.	Skelton of Pigeon or <i>Gallus</i> and <i>Orcyctolagus</i> /rat.
DAY12 DATE 13-1-18	Type study of Lizard.	Palates of birds, skulls of dog & rabbit.
DAY13 DATE 15-1-18	Type study of Lizard.	Study of slides: Tornaria larva, T.S. Amphioxus (through different regions). <i>Oikopleura</i> ,
DAY 14 DATE 16-1-18	Type study of Lizard.	Study of slides: Histology of rat (compound tissues), different types of scales
DAY15 DATE 17-1-18	-----	Study of slides: Tornaria larva, T.S. Amphioxus (through different regions). <i>Oikopleura</i> ,
DAY16 DATE 18-1-18	Origin, Evolutionary tree.	Study of slides: Histology of rat (compound tissues), different

		types of scales
DAY17 DATE 19-1-18	Origin, Evolutionary tree.	Study of slides: Histology of rat (compound tissues), different types of scales
DAY18 DATE 20-1-18	Extinct reptiles.	Study of slides: Histology of rat (compound tissues), different types of scales
DAY19 DATE 22-1-18	HOLIDAY	HOLIDAY
DAY20 DATE 23-1-18	SPORTS DAY	SPORTS DAY
DAY21 DATE 24-1-18	HOLIDAY	HOLIDAY
DAY22 DATE 25-1-18	Poisonous and non-poisonous snakes.	Make permanent stained slides of <i>Salpa</i> , Spicules, and Pharynx of <i>Herdmania</i> .
DAY23 DATE 26-1-18	HOLIDAY	HOLIDAY
DAY 24 DATE 27-1-18	Poison apparatus in snakes.	Make permanent stained slides of <i>Salpa</i> , Spicules, and Pharynx of <i>Herdmania</i>
UNIT/PART II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	Type study of Pigeon.	Make permanent stained slides of <i>Salpa</i> , Spicules, and Pharynx of <i>Herdmania</i> .
DAY2 DATE 30-1-18	Type study of Pigeon.	Make permanent stained slides of <i>Amphioxus</i> , Cycloid scales.
DAY3 DATE 31-1-18	HOLIDAY	HOLIDAY
DAY4 DATE 1-2-18	Type study of Pigeon.	Make permanent stained slides of <i>Amphioxus</i> , Cycloid scales.
DAY5 DATE 2-2-18	Type study of Pigeon.	Make permanent stained slides of <i>Salpa</i> , Spicules, and Pharynx of <i>Herdmania</i>
DAY6 DATE 3-2-18	Type study of Pigeon.	Make permanent stained slides of <i>Amphioxus</i> , Cycloid scales.
DAY7 DATE 5-2-18	Type study of Pigeon.	Qualitative tests for identification of simple sugars, disaccharides and polysaccharides.
DAY8 DATE 6-2-18	Type study of Pigeon.	Qualitative tests for identification of simple sugars,

		disaccharides and polysaccharides.
DAY9 DATE 7-2-18	-----	Qualitative tests for identification of simple sugars, disaccharides and polysaccharides
DAY10 DATE 8-2-18	Flight adaptations	Qualitative tests for identification of simple sugars, disaccharides and polysaccharides.
DAY11 DATE 9-2-18	ASSIGNMENT 1	Qualitative tests for identification of simple sugars, disaccharides and polysaccharides.
DAY12 DATE 10-2-18	HOLIDAY	HOLIDAY
DAY13 DATE 12-2-18	Principles of aerodynamics of Bird flight.	Estimation of Hb.
DAY14 DATE 13-2-18	HOLIDAY	HOLIDAY
DAY15 DATE 14-2-18	-----	Estimation of Hb.
DAY16 DATE 15-2-18	Migration in birds.	Estimation of Hb.
DAY17 DATE 16-2-18	Classification of mammals.	Qualitative tests for identification of simple sugars, disaccharides and polysaccharides.
DAY18 DATE 17-2-18	Classification of mammals.	Estimation of Hb.
DAY19 DATE 19-2-18	Type study of Rat.	Study of human salivary amylase activity: Effect of temperature, ph, Concentration.
DAY20 DATE 20-2-18	Type study of Rat.	Study of human salivary amylase activity: Effect of temperature, ph, Concentration.
DAY21 DATE 21-2-18	-----	Study of human salivary amylase activity: Effect of temperature, ph, Concentration.
DAY22 DATE 22-2-18	Type study of Rat.	Study of human salivary amylase activity: Effect of temperature, ph, Concentration.
DAY23 DATE 23-2-18	Type study of Rat.	Study of human salivary amylase activity: Effect of temperature, ph, Concentration
UNIT/PART	TOPIC	

III	THEORY	PRACTICAL
DAY1 DATE 24-2-18	Type study of Rat.	Study of human salivary amylase activity: Effect of temperature, ph, Concentration
DAY2 DATE 26-2-18	Type study of Rat.	Estimation of abnormal constituents of urine (Albumin, sugar, ketone bodies).
DAY3 DATE 27-2-18	Type study of Rat.	Estimation of abnormal constituents of urine (Albumin, sugar, ketone bodies).
DAY4 DATE 28-2-18	HOLIDAY	HOLIDAY
DAY5 DATE 1-3-18	HOLIDAY	HOLIDAY
DAY6 DATE 2-3-18	HOLIDAY	HOLIDAY
DAY7 DATE 3-3-18	HOLIDAY	HOLIDAY
DAY8 DATE 5-3-18	Adaptive radiations of mammals.	Haematin crystal preparation.
DAY9 DATE 6-3-18	Adaptive radiations of mammals.	Haematin crystal preparation.
DAY10 DATE 7-3-18	-----	Estimation of abnormal constituents of urine (Albumin, sugar, ketone bodies).
DAY11 DATE 8-3-18	Dentition.	Estimation of abnormal constituents of urine (Albumin, sugar, ketone bodies).
DAY12 DATE 9-3-18	Origin, conduction and regulation of heart beat, cardiac cycle.	Haematin crystal preparation.
DAY13 DATE 10-3-18	ASSIGNMENT 2	Estimation of abnormal constituents of urine (Albumin, sugar, ketone bodies)
DAY 14 DATE 12-3-18	Origin, conduction and regulation of heart beat, cardiac cycle.	RBC count.
DAY15 DATE 13-3-18	Electrocardiogram, cardiac output.	RBC count.
DAY16 DATE 14-3-18	-----	RBC count.
DAY17 DATE 15-3-18	Fluid pressure and flow pressure in closed and open circulatory system; Composition and functions of blood & lymph.	RBC count.
DAY18 DATE 16-3-18	Mechanism of coagulation of blood, coagulation factors; anticoagulants, haemopoiesis	RBC count.
DAY19 DATE 17-3-18	Exchange of respiratory gases, transport of gases.	RBC count.

DAY20 DATE 19-3-18	Lung air volumes, oxygen dissociation curve of hemoglobin, Bohr's effect.	WBC count
DAY21 DATE 20-3-18	Haberger's phenomenon (Chloride shift), control / regulation of respiration.	WBC count
DAY22 DATE 21-3-18	-----	WBC count
DAY23 DATE 22-3-18	CONDITIONAL TEST	WBC count
DAY 24 DATE 23-3-18	HOLIDAY	HOLIDAY
DAY 25 DATE 24-3-18	Patterns of excretory products viz. Aminotelic, ureotlic uricotelic, ornithine cycle (Kreb's – Henseleit cycle) for urea formation in liver.	WBC count
UNIT/PART IV	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 26-3-18	Urine formation, counter-current mechanism of urine concentration.	Use of Kymograph unit & respirometer
DAY2 DATE 27-3-18	Osmoregulation, Micturition.	Use of Kymograph unit & respirometer
DAY3 DATE 28-3-18	Osmoregulation, Micturition.	Use of Kymograph unit & respirometer
DAY4 DATE 29-3-18	HOLIDAY	HOLIDAY
DAY5 DATE 30-3-18	Nature, origin and propagation of nerve impulse along with medullated & non-medullated nerve fiber,	WBC count
DAY6 DATE 31-3-18	Nature, origin and propagation of nerve impulse along with medullated & non-medullated nerve fiber,	Use of Kymograph unit & respirometer
DAY7 DATE 2-4-18	Conduction of nerve impulse across synapse.	Zoological excursion and its report
DAY8 DATE 3-4-18	Conduction of nerve impulse across synapse.	Zoological excursion and its report
DAY9 DATE 4-4-18	-----	Zoological excursion and its report
DAY10 DATE 5-4-18	Structure and mechanism of hormone action.	Zoological excursion and its report
DAY11 DATE 6-4-18	Structure and mechanism of hormone action.	Zoological excursion and its report
DAY12 DATE 7-4-18	Structure and mechanism of hormone action.	Zoological excursion and its report
DAY13 DATE 9-4-18	Physiology of pituitary.	Zoological excursion and its report
DAY14 DATE 10-4-18	Physiology of hypothalamus.	Revision and file checking.

DAY15 DATE 11-4-18	-----	Zoological excursion and its report
DAY16 DATE 12-4-18	Physiology of thyroid and parathyroid	Revision and file checking.
DAY17 DATE 13-4-18	Physiology of adrenal	Zoological excursion and its report
DAY18 DATE 14-4-18	HOLIDAY	HOLIDAY
DAY19 DATE 16-4-18	Physiology of pancreas.	Revision and file checking.
DAY20 DATE 17-4-18	Physiology of gonads.	Revision and file checking.
DAY21 DATE 18-4-18	HOLIDAY	Revision and file checking.
DAY22 DATE 19-4-18	Revision	Revision and file checking.
DAY23 DATE 20-4-18	Revision	Revision and file checking

CLASS/SECTION

: B.SC IIIRD YEAR

SUBJECT

: ZOOLOGY

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY3 DATE 3-1-18	World fisheries: Utilization	Chemical analysis of pond water and soil for pH, dissolved oxygen, free CO ₂ nitrates, phosphates and chlorides.
DAY9 DATE 10-1-18	Pond fisheries - 2	Study of the different types of nets.
DAY15 DATE 17-1-18	Fishing gears	Adaptative modifications in feet and breaks of birds.
DAY21 DATE 24-1-18	HOLIDAY	HOLIDAY
UNIT/PART II	TOPIC	
	THEORY	PRACTICAL
DAY3 DATE 31-1-18	HOLIDAY	HOLIDAY
DAY9 DATE 7-2-18	Intorduction to pests of Cotton	Study of permanent slides of WM of chick embryo (13-18h, 24-36h, 36-48h, 48-72h).
DAY15 DATE 14-2-18	Pink bollworm (<i>Pectinophora gossypiella</i>): Life cycle and control	Preparation of permanent/temporary slides of

		developmental stages of frog/mosquito and chick egg
DAY21 DATE 21-2-18	Gundhi bug (<i>Leptocorisa acuta</i>): systematics position, habits, nature of damage caused	Preparation of permanent histological slides of testis, ovaries and kidney.
UNIT/PART III	TOPIC	
	THEORY	PRACTICAL
DAY4 DATE 28-2-18	HOLIDAY	HOLIDAY
DAY10 DATE 7-3-18	<i>Tetranychus tecarius</i> – The vegetable mite: systematic position, habits and nature of damage caused	Preparation of permanent histological slides of intestine, liver.
DAY16 DATE 14-3-18	Culture technology: Biotechnology, gene manipulation and cryopreservation of gametes	Staining.
DAY22 DATE 21-3-18	CONDITIONAL TEST	Staining.
UNIT/PART IV	TOPIC	
	THEORY	PRACTICAL
DAY3 DATE 28-3-18	CONDITIONAL TEST	Staining.
DAY9 DATE 4-4-18	Chemical control: Categories of pesticides - 3	Staining.
DAY15 DATE 11-4-18	Insect attractants	Staining.
DAY21 DATE 18-4-18	HOLIDAY	HOLIDAY