

MOTHER TERESA WOMEN'S UNIVERSITY . KODAIKANAL - 624102.

B.Sc., Ancillary Zoology Syllabus. 2018-2019 ONWARDS

SEMESTER-I
SUB CODE: 18AZ1

TOTAL HOURS: 75 hrs.

	Hours
I INVERTEBERATA	
Study of the following types with their diagnostic characters of the phyla and classes to which they belong.	15
a) Paramecium b) Prawn c) starfish	
Life history, transmission and control measures of plasmodium and filarial worm.	5
II CHORDATA	
Classification of chordates up to classes with their diagnostic Characters	5
Identification,biology and significance of any 5 edible fishes	10
Snakes- Identification of poisonous and non-poisonous Snakes- Mechanism of bite-venom and action, first aid for snake bite.	
III CYTO GENETICS	
Mitosis and Meiosis.	10
Laws of Mendel and common Mendelian traits in man.	
IV PHYSIOLOGY &	
Circulation – structure and function of human heart	15
ECG, Blood Pressure, blood sugar and blood urea.	
Excretion-Structure of nephron- Physiology of excretion.	
Endocrine glands – Pituitary and thyroid	
V EMBRYOLOGY	
Development of frog upto gastrulation.	15
Test tube babies -Artificial insemination , Birth control	

References Text Book:

1. A Text Book of Invertebrates- N.C.Nair, S. Leelavathy, N.Soundara pandian, T.Murgan, Dr. N. Arumugam. Saras Publication, 2010.
2. A Text Book of chordates – A. Thangamani, S. Prasanna kumar, L . N.Narayanan, Dr N.Arumugam Saras Publication, 2010.
3. Physiology, Biochemistry, Developmental Biology, Microbiology & Evolution, Dr Arumugam, Saras Publication, 2010.

ANCILLARY-ZOOLOGY - PRACTICAL – I

SUB CODE:
18AZ2

Invertebrata & chordata:

Paramecium - Mounting
Earthworm - Body and penial setae
Appendages of prawn
Placoid scales

Physiology

Human blood smear
Recording of Blood pressure.

Cytogenetics

Mitosis in Onion root tip cells.
Observation of simple mendelian traits
Variation in Finger prints

Diagram and description

Earthworm	-	Body and penial setae
Cockroach	-	Digestive system and Nervous system.
Frog	-	Arterial system and Brain.
Embryology	-	Frog cleavage, blastula and gastrula.

Spotters:-

Amoeba.
Ascaris entire (male & female).
Filarial bancrofti.
Starfish oral and aboral view.
Amphioxus.
Narcine.
Clarius.
Rhacophorus.
Chamaeleon.
2 poisonous snakes.
2 Non poisonous snakes.
Parrot - beak
Eagle- beak
Bat.