

Academic session 2020-2021

Class: B.Sc. (medical) 1st semester

Subject: zoology

Paper 1- Life and diversity from protozoa to porifera and cell biology-1

Paper 2- Life and diversity from Coelenterata to helminthes and Cell biology-2

Ms. Aanchal jain, Assistant professor of Zoology

Month	Topic	Academic activities
December 2020	Protozoa- general characters and classification, Plasma membrane, endoplasmic reticulum, golgi complex, ribosomes, lysosomes	Introduction of syllabus
January 2021	Type study of <i>Plasmodium</i> , parasitic protozoans, mitochondria, cytoskeleton, cilia and Flagella, general characters and classification of Porifera , type study- <i>sycon</i> , canal system and spicules in sponges	Assignment and test. discussion on assignment and test
February 2021	Phylum Coelenterata -General characters and classification, type study- <i>Obelia</i> , corals and coral reefs, polymorphism in Siphonophora Phylum Helminthes- general characters and classification, type study- <i>Fasciola hepatica</i> , helminthes parasites, Mitosis and meiosis, cellular basis of immunity, cancer	2nd assignment and test

- ★ 1st Assignment - 2nd week of January, 2021 topic- Parasitic protozoans
- ★ Class test 1 - 2nd week of January 2021, Topic - type study- plasmodium, centriole and basal body, cilia and flagella

- ★ 2nd assignment - last week of January 2021, topic- Nucleus
- ★ 2nd test- 1st week of February 2021, topic- type study- sycon and canal system in sponges.

Academic session 2020-2021

Class- B.Sc. (medical) 3rd semester

Subject- Zoology

Paper1- Life and diversity of chordates-1

Paper2- Mammalian physiology-1

Ms.Aanchal jain, Assistant professor of Zoology

Month	Topic	Academic activities
December 2020	Introduction to chordates, Urochordates- Classification, type study of <i>Herdmania</i> , nutrition	Introduction to syllabus
January 2021	Cephalochordates- Classification, type study of <i>Amphioxus</i> , muscles, bones, nomenclature, Classification and mechanism of enzyme action, Cyclostomes- type study of <i>Petromyzon</i>	Assignment and test. Discussion on assignment and test
February 2021	Pisces- type study of <i>Labeo rohita</i> , scales and fins, parental care in fishes, fish migration , Buffers, general properties of proteins, carbohydrates	2nd assignment and test

- ★ 1st assignment- 2nd week of January 2021, topic- types of muscles and ultrastructure of skeletal muscles.
- ★ 1st test- last week of January 2021, Topic- *Herdmania* type study
- ★ 2nd assignment - last week of January 2021, topic- bone disorders
- ★ 2nd test- 1st week of February , topic- structure and types of bones, bone growth and resorption

Academic session 2020-2021

Class: B.sc. (medical) 5th Semester

Subject- Zoology

Paper1- Environmental biology

Paper 2- Evolution and developmental biology

Ms.Aanchal jain, Assistant professor of Zoology

Month	Topic	Academic activities
December 2020	Basic concepts of ecology, factors affecting environment, Ecosystem Fertilization	Introduction to syllabus
January 2021	Parthenogenesis, types of eggs and patterns of cleavage, blastulation and cleavage, development of frog and chick, primary organizers, extra embryonic membranes, concept of competence, determination and differentiation	Assignment and test. Discussion on assignment and test
February 2021	Regeneration, population, population interactions, evolution	Doubt sessions

- ★ 1st assignment- 1st week of January 2021, Topic- structure of egg and sperm, spermatogenesis and oogenesis
- ★ Test- 2nd week of January 2021, topic- Fertilization, cleavage and parthenogenesis
- ★ 2nd assignment- 3rd week of January 2021, Topic- Human evolution

