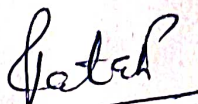
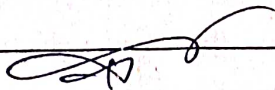


Government PG College, Ambala Cantt.

Subject: Zoology Name of Teacher : Dr. Ratesh Kumar

Lesson Plan Session 2022-23 Semester: 1st Class: B.Sc. Medical

Month	Details
September 2022	1. Protozoa: i) General characters and classification up to order level ii) Biodiversity and economic importance iii) Type study of <i>Plasmodium</i> ; iv) Parasitic protozoans: Life history, mode of infection and pathogenicity of <i>Entamoeba</i> , <i>Trypanosoma</i> , <i>Leishmania</i> and <i>Giardia</i> .
October 2022	2. Porifera: i) General characters and classification up to order level ii) Biodiversity and economic importance iii) Type study – <i>Sycon</i> iv) Canal system in sponges v) Spicules in sponges
November 2022	1. Phylum – Coelentrata : i) General characters and classification up to order level ii) Biodiversity, economic importance iii) Type Study - <i>Obelia</i> iv) Corals and coral reefs v) Polymorphism in Siphonophores 2. Phylum – Helminths : i) General characters and classification up to order level ii) Biodiversity, economic importance iii) Type study – <i>Fasciola hepatica</i> ; iv) Helminths parasites : Brief account of life history, mode of infection and pathogenesis of <i>Schistosoma</i> , <i>Ancylostoma</i> , <i>Trichinella</i> , <i>Wuchereria</i> and <i>Oxyuris</i> .
December 2022	Ultrastructure and functions of Nucleus : Nuclear membrane, nuclear lamina, nucleolus, fine structure of chromosomes, nucleosome concept and role of histones, euchromatin and heterochromatin, lampbrush chromosomes and polytene chromosomes. 2. Mitosis and Meiosis (Cell reproduction) 3. Brief account of causes of cancer. 4. An elementary idea of cellular basis of Immunity. Class test , Semester end Examinations  

Government PG College, Ambala Cantt.
Subject: Zoology Name of Teacher : Dr. Ratesh Kumar
Lesson Plan Session 2022-23 Class: B.Sc. 3rd sem.

Month	Details
September 2022	Muscles: Types of muscles, ultra-structure of skeletal muscle. Bio-chemical and physical events during muscle contraction; single muscle twitch, tetanus, muscle fatigue muscle, tone, oxygen debt
October 2022	Cori's cycle, single unit smooth muscles, their physical and functional properties. Bones: Structure and types, classification, Class test
November 2022	bone growth and resorption, effect of ageing on Skeletal system and bone disorders Absorption of nutrients & assimilation; control of enzyme secretion
December 2022	Types study of Labeo

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Government PG College, Ambala Cantt.

Subject: Zoology Name of Teacher : Dr. Ratesh Kumar

Lesson Plan Session 2022-23 Class: B.Sc. 5th sem.

Month	Details
September 2022	Parental care in animals.
October 2022	Population interactions: Competition, predation, parasitism, commensalisms and mutualism.
November 2022	6. Population: Growth and regulation Class Test
December 2022	Environmental Pollution: Air, water, soil and management strategies.

Ratesh Kumar 