

S. No.	Topics	Page No.
UNIT- I	ZOOLOGY – Diversity of Living World What is life? Nature, Scope & meaning of zoology Branches of Zoology Need for classification- Zoos as tools for the study of taxonomy Basic principles of Classification: Biological system of classification- (Phylogenetic classification only) Levels or Hierarchy of classification Nomenclature – Bi & Trinominal Species concept Kingdom Animalia Biodiversity – Meaning and distribution (Genetic diversity, Species diversity, Ecosystem diversity(alpha,beta and gama), other attributes of biodiversity, role of biodiversity, threats to biodiversity, methods of conservation, IUCN Red data books, Conservation of wild life in India – Legislation, Preservation, Organisations, Threatened species.	
UNIT- II	STRUCTURAL ORGANIZATION IN ANIMALS Levels of organization, Multicellularity: Diploblastic & Triploblastic conditions. Asymmetry, Symmetry: Radial symmetry, and Bilateral symmetry (Brief account giving one example for each type from the representative phyla) Acoelomates, Pseudocoelomates and Eucoelomates :- Schizo & Entero coelomates (Brief account of formation of coelom) Tissues: Epithelial, Connective, Muscular and Nervous tissues. (make it a little more elaborative)	
UNIT- III	ANIMAL DIVERSITY - I: INVERTEBRATE PHYLA General Characters – Strictly restrict to 8 salient features only Classification up to Classes with two or three examples – Brief account only Porifera Cnidaria Ctenophora Platyhelminthes Nematoda	

	<p>Annelida (Include Earthworm as a type study strictly adhering to NCERT text book)</p> <p>Arthropoda</p> <p>Mollusca</p> <p>Echinodermata</p> <p>Hemichordata</p>	
UNIT- IV	<p>ANIMAL DIVERSITY - I I: PHYLUM : CHORDATA</p> <p>General Characters – Strictly restrict to 8 points only</p> <p>Classification up to Classes - Brief account only with two or three examples</p> <p>Phylum : Chordata</p> <p>Sub phylum: Urochordata</p> <p>Sub phylum: Cephalochordata</p> <p>Sub phylum : Vertebrata</p> <p>Super class: Agnatha</p> <p>Class Cyclostomata</p> <p>Super class: Gnathostomata</p> <p>Super class pisces</p> <p>Class: Chondrichthyes</p> <p>Class: Osteichthyes Tetrapoda</p> <p>Class: Amphibia (Include Frog as a type study strictly adhering to NCERT text book)</p> <p>Class: Reptilia</p> <p>Class: Aves</p> <p>Class: Mammalia</p>	
UNIT- V	<p>LOCOMOTION & REPRODUCTION IN PROTOZOA</p> <p>Locomotion: Definition, types of locomotor structures pseudopodia (basic idea of pseudopodia without going into different types), flagella & cilia (Brief account giving two examples each)</p> <p>Flagellar & Ciliary movement – Effective & Recovery strokes in <i>Euglena</i>, Synchronal & Metachronal movements in <i>Paramecium</i>.</p> <p>5.3 Reproduction: Definition, types.</p> <p>Asexual Reproduction: Transeverse binary fission in <i>Paramecium</i> & Longitudinal binary fission in <i>Euglena</i>.</p> <p>Multiple fission,</p> <p>5.4 Sexual Reproduction.</p>	
UNIT- VI	<p>BIOLOGY & HUMAN WELFARE (25 pages only)</p> <p>Parasitism and parasitic adaptation</p> <p>Health and disease: introduction (follow NCERT) Life cycle, Pathogenecity, Treatment & Prevention (Brief account only)</p> <p>1 <i>Entamoeba histolytica</i></p> <p>2 <i>Plasmodium vivax</i></p> <p>3 <i>Ascaris lumbricoides</i></p> <p>4 <i>Wuchereria bancrofti</i></p>	

	Brief account of pathogenecity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ring worm. Drugs and Alcohol abuse	
UNIT- VII	Type study of <i>Periplaneta americana</i> Habitat and habits External features Locomotion Digestive system Respiratory system Circulatory system Excretory system Nervous system – sense organs, structure of ommatidium. Reproductive system	
UNIT- VIII	ECOLOGY & ENVIRONMENT Organisms and Environment: Ecology, population, communities, habitat, niche, biome and ecosphere (definitions only) Ecosystem: Elementary aspects only Abiotic factors - Light, Temperature & Water (Biological effects only), Ecological adaptations Population interactions Ecosystems: Types, Components, Lake ecosystem Food chains, Food web, Productivity and Energy flow in Ecosystem, Ecological pyramids – Pyramids of numbers, biomass and energy. Nutritient cycling – Carbon, Nitrogen, & Phosphorous cycles (Brief account) Population attributes: Growth, Natality and Mortality, Age distribution, Population regulation. Environmental issues	
Topics deleted under 30% reduction of Syllabus due to COVID-19		
Unit-VII	Periplaneta America (Cockroach) – Entire chapter deleted	175 - 202
Unit-VIII	ECOLOGY & ENVIRONMENT 8.4- Ecosystem & their Components 8.5- Food chains, Food Webs, Productivity & Energy flow. 8.6- Nutrient cycle 8.8- Environmental Issues	228 – 246