Board of Intermediate Education, Andhra Pradesh.

Intermediate – I Year Syllabus w.e.f. 2012 – 13

Subject : ZOOLOGY – I

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 biodiveristy, 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 elobarative)	
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	

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

	Brief account of pathogenecity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ring worm. Drugs and Alcohol absuse	
UNIT- VII	**Type study of Periplaneta americana** 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