

BOARD OF INTERMEDIATE EDUCATION, AP., HYDERABAD
Revision of Intermediate I Year Syllabus
Subject – Zoology-I Syllabus(2012-13)

UNIT-I	PERIODS
UNIT- I: ZOOLOGY – Diversity of Living World	16
1.1 What is life?	
1.2 Nature, Scope & meaning of zoology	
1.3 Branches of Zoology	
1.4 Need for classification- Zoos as tools for the study of taxonomy	
1.5 Basic principles of Classification: Biological system of classification- (Phylogenetic classification only)	
1.6 Levels or Hierarchy of classification	
1.7 Nomenclature – Bi & Trinominal	
1.8 Species concept	
1.9 Kingdom Animalia	
1.10 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	PERIODS
<p>UNIT- II: STRUCTURAL ORGANIZATION IN ANIMALS</p> <p>2.1 Levels of organization, Multicellularity: Diploblastic & Triploblastic conditions</p> <p>2.2 Asymmetry, Symmetry: Radial symmetry, and Bilateral symmetry (Brief account giving one example for each type from the representative phyla)</p> <p>2.3 Acoelomates, Pseudocoelomates and Eucoelomates :- Schizo & Entero coelomates (Brief account of formation of coelom)</p> <p>2.4 Tissues: Epithelial, Connective, Muscular and Nervous tissues. (make it a little more elaborative)</p>	18

UNIT - III	PERIODS
<p>UNIT- III: ANIMAL DIVERSITY - I: INVERTEBRATE PHyla</p> <p>General Characters – Strictly restrict to 8 salient features only</p> <p>Classification up to Classes with two or three examples – Brief account only</p> <p>3.1 Porifera</p> <p>3.2 Cnidaria</p> <p>3.3 Ctenophora</p> <p>3.4 Platyhelminthes</p> <p>3.5 Nematoda</p> <p>3.6 Annelida (Include Earthworm as a type study strictly adhering to NCERT text book)</p> <p>3.7 Arthropoda</p> <p>3.8 Mollusca</p> <p>3.9 Echinodermata</p> <p>3.10 Hemichordata</p>	18

UNIT-IV	PERIODS
<p style="text-align: center;">UNIT- IV: ANIMAL DIVERSITY - II: PHYLUM : CHORDATA</p> <p>General Characters – Strictly restrict to 8 points only Classification up to Classes - Brief account only with two or three examples</p> <p>4.0 Phylum : Chordata</p> <p>4.1 Sub phylum: Urochordata</p> <p>4.2 Sub phylum: Cephalochordata</p> <p>4.3 Sub phylum : Vertebrata</p> <p>4.4 Super class: Agnatha</p> <p>4.4.1 Class Cyclostomata</p> <p>4.5 Super class: Gnathostomata</p> <p>4.5.1 Super class pisces</p> <p>4.5.2 Class: Chondrichthyes</p> <p>4.5.3 Class: Osteichthyes</p> <p>4.6 Tetrapoda</p> <p>4.6.1 Class: Amphibia (Include Frog as a type study strictly adhering to NCERT text book)</p> <p>4.6.2 Class: Reptilia</p> <p>4.6.3 Class: Aves</p> <p>4.6.4 Class: Mammalia</p>	18

UNIT-V	PERIODS
<p style="text-align: center;">UNIT- V: LOCOMOTION & REPRODUCTION IN PROTOZOA</p> <p>5.1 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>5.2 Flagellar & Ciliary movement – Effective & Recovery strokes in <i>Euglena</i>, Synchronal & Metachronal movements in Paramecium.</p>	12

5.3	Reproduction: Definition, types. Asexual Reproduction: Transeverse binary fission in <i>Paramecium</i> & Longitudinal binary fission in <i>Euglena</i> . Multiple fission,	
5.4	Sexual Reproduction.	

UNIT-VI		PERIODS
UNIT- VI: BIOLOGY & HUMAN WELFARE (25 pages only)		20
6.1	Parasitism and parasitic adaptation	
6.2	Health and disease: introduction (follow NCERT) Life cycle, Pathogenecity, Treatment & Prevention (Brief account only) 1 <i>Entamoeba histolytica</i> 2 <i>Plasmodium vivax</i> 3 <i>Ascaris lumbricoides</i> .4 <i>Wuchereria bancrofti</i>	
6.3	Brief account of pathogenecity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ring worm.	
6.4	Drugs and Alcohol absuse	

UNIT-VII	PERIODS
<p>UNIT- VII: Type study of Periplaneta americana</p> <p>7.1 Habitat and habits</p> <p>7.2 External features</p> <p>7.3 Locomotion</p> <p>7.4 Digestive system</p> <p>7.5 Respiratory system</p> <p>7.6 Circulatory system</p> <p>7.7 Excretory system</p> <p>7.8 Nervous system – sense organs, structure of ommatidium.</p> <p>7.9 Reproductive system</p>	15

UNIT-VIII	PERIODS
<p>UNIT- VIII: ECOLOGY & ENVIRONMENT</p> <p>8.1 Organisms and Environment: Ecology, population, communities, habitat, niche, biome and ecosphere (definitions only)</p> <p>8.2 Ecosystem: Elementary aspects only Abiotic factors- Light, Temperature & Water (Biological effects only), Ecological adaptations</p> <p>8.3 Population interactions</p> <p>8.4 Ecosystems: Types, Components, Lake ecosystem</p> <p>8.5 Food chains, Food web, Productivity and Energy flow in Ecosystem, Ecological pyramids – Pyramids of numbers, biomass and energy.</p> <p>8.6 Nutrient cycling – Carbon, Nitrogen, & Phosphorous cycles (Brief account)</p> <p>8.7 Population attributes: Growth, Natality and Mortality, Age distribution, Population regulation.</p> <p>8.8 Environmental issues</p>	40

157 PERIODS

Guidelines to authors:

1. In addition you may include a few local examples for better understanding examples cited in NCERT text books for all topics.
2. Topics to be dealt on par with NCERT text books.
3. Vision of the topic to be included at the beginning to stimulate the thinking of the students.
4. Very short, short, and long answer type of questions have to be given at the end of each chapter as model questions keeping the weightage in mind.
5. For every unit a back ground of the pioneering scientists (preferably of Indian origin) and his contributions may be included at the beginning to motivate students This is additional information and to be marked as "Not for Evaluation".
6. Try to present the content in simple language and lucid style wherever the subject matter is to be written afresh.
7. Get the key words typed in bold.
8. Type all scientific names in italics.
9. Coloured 'corolla' diagrams are to be incorporated wherever necessary.
10. Glossary: write precisely, if necessary adopt the relevant terms from standard text books.

Minimize the number. Do not exceed 3 sentences.