

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR ZOOLOGY SYLLABUS

UNIT- I: ZOOLOGY - Diversity of Living World

- 1.1. What is life?
- 1.2. Nature, Scope & meaning of zoology
- 1.3. Branches of Zoology
- 1.6. Levels or Hierarchy of classification
- 1.7. Nomenclature
- 1.8. Species concept
- 1.9. Kingdom Animalia
- 1.10. Biodiversity – Meaning and distribution (Genetic diversity, Species diversity, Ecosystem diversity (alpha, beta and gamma), 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

- 2.1. Levels of organization, Multicellularity: Diploblastic & Triploblastic conditions
- 2.2. Asymmetry, Symmetry: Radial symmetry, and Bilateral symmetry
- 2.3. Acoelomates, Pseudocoelomates and Eucoelomates: Schizo & Enterocoelomates
- 2.4. Tissues: Epithelial, Connective, Muscular and Nervous tissues. (make it a little more elaborate)

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

- 3.1. Porifera
- 3.2. Cnidaria
- 3.3. Ctenophora

- 3.4. Platyhelminthes
- 3.5. Nematoda
- 3.6. Annelida (Including Brief type study of Earthworm)
- 3.7. Arthropoda
- 3.8. Mollusca
- 3.9. Echinodermata
- 3.10. Hemichordata

UNIT- IV: ANIMAL DIVERSITY - II: PHYLUM : CHORDATA

- 4.0. Phylum: Chordata
- 4.1. Sub phylum: Urochordata
- 4.2. Sub phylum: Cephalochordata
- 4.3. Sub phylum : Vertebrata
- 4.4. Super class: Agnatha
 - 4.4.1. Class Cyclostomata
- 4.5. Super class: Gnathostomata
 - 4.5.1. Super class pisces
 - 4.5.2. Class: Chondrichthyes
 - 4.5.3. Class: Osteichthyes
- 4.6. Tetrapoda
 - 4.6.1. Class: Amphibia (Including brief type study of Frog)
 - 4.6.2. Class: Reptilia
 - 4.6.3. Class: Aves
 - 4.6.4. Class: Mammalia

UNIT- VI: BIOLOGY IN HUMAN WELFARE

- 6.1. Parasitism and parasitic adaptation
- 6.2. Health and disease: introduction (follow NCERT) Life cycle, Pathogenicity, Treatment & Prevention (Brief account only)
 - 1. *Entamoeba histolytica*
 - 2. *Plasmodium vivax*
 - 3. *Ascaris lumbricoides*
 - 4. *Wuchereria bancrofti*
- 6.3. Brief account of pathogenicity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ringworm.
- 6.4. Drugs and Alcohol abuse

UNIT- VIII: ECOLOGY & ENVIRONMENT

- 8.0 What is Ecology, Importance of Ecology
- 8.1. Organisms and Environment: Ecology, population, communities, habitat, niche, biome and ecosphere (definitions only)
- 8.2. Ecosystem: Elementary aspects only Abiotic factors- Light, Temperature & Water (Biological effects only), Ecological adaptations
- 8.3. Population interactions
- 8.5.1 Biotic factors
- 8.5.2 The food chains
- 8.6.2 Nutrient cycles- Nitrogen cycle (Brief account)
- 8.7 Population attributes: Growth, Natality and Mortality, Age distribution, Population regulation.
