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BSZO - SN101  
[w.e.f. 2020-21, Admitted Batch]

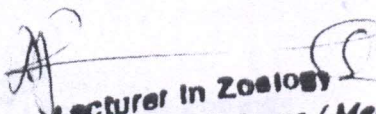
ZOOLOGY PRACTICAL SYLLABUS FOR I SEMESTER ZOOLOGY - PAPER - I

ANIMAL DIVERSITY - BIOLOGY OF NONCHORDATES

Periods: 24 Max. Marks: 50

Syllabus :

1. Study of museum slides / specimens / models (Classification of animals up to orders)  
**Protozoa:** Amoeba, Paramoecium, Paramoecium Binary fission and Conjugation, Vorticella, Entamoebahistolytica, Plasmodium vivax.  
**Porifera:** Sycon, Spongilla, Euspongia, Sycon- T.S & L.S, Spicules, Gemmule  
**Coelenterata:** Obelia – Colony & Medusa, Aurelia, Physalia, Velella, Corallium, Gorgonia, Pennatulav.  
**Platyhelminthes:** Planaria, Fasciola hepatica, Fasciolalarval forms – Miracidium, Redia, Cercaria, Echinococcusgranulosus, Taeniasolium, Schistosomahaematobium  
**Nemathelminthes:** Ascaris(Male & Female), Drancunculus, Ancylostoma, Wuchereria  
**Annelida:** Nereis, Aphrodite, Chaetopteurs, Hirudinaria, Trochophore larva  
**Arthropoda:** Cancer, Palaemon, Scorpion, Scolopendra, Sacculina, Limulus, Peripatus, Larvae - Nauplius, Mysis, Zoea, Mouth parts of male & female Anopheles and Culex, Mouthparts of Housefly and Butterfly.  
**Mollusca:** Chiton, Pila, Unio, Pteredo, Murex, Sepia, Loligo, Octopus, Nautilus, Glochidium larva  
**Echinodermata:** Asterias, Ophiothrix, Echinus, Clypeaster, Cucumaria, Antedon, Bipinnaria larva  
**Hemichordata:** Balanoglossus, Tornaria larva
2. **Dissections:** 1. Prawn: Appendages, Digestive system, Nervous system, Mounting of Statocyst 2. Insect Mouth Parts
3. Laboratory Record work shall be submitted at the time of practical examination

  
Lecturer in Zoology  
Govt. Degree College (Men)  
TIRAKKULAM-632 001

Dr. B. R. AMBEDKAR UNIVERSITY SRIKAKULAM

B.O.S -APPROVED SYLLABUS

REVISED SYLLABUS OF B.Sc. (ZOOLOGY) UNDER CBCS FRAME WORK WITH EFFECT FROM 2020-21

ZOOLOGY SYLLABUS FOR I SEMESTER PAPER – I:

ANIMAL DIVERSITY – BIOLOGY OF NONCHORDATES ✓

HOURS:60 (5X12)

Max. Marks: 100

UNIT I

1.1 Principles of Taxonomy – Binomial nomenclature – Rules of nomenclature 1.2 Whittaker's five kingdom concept and classification of Animal Kingdom. Phylum Protozoa 1.3 General Characters and classification of protozoa up to classes with suitable examples 1.4 Locomotion, nutrition and reproduction in Protozoans 1.5 Elphidium (type study)

UNIT –II

Phylum Porifera 2.1 General characters and classification up to classes with suitable examples 2.2 Skelton in Sponges 2.3 Canal system in sponges Phylum Coelenterata 2.4 General characters and classification up to classes with suitable examples 2.5 Metagenesis in Obelia 2.6 Polymorphism in coelenterates 2.7 Corals and coral reefs Phylum Ctenophora : 2.8 General Characters and Evolutionary significance (affinities).

Unit – III



Phylum Platyhelminthes 3.1 General characters and classification up to classes with suitable examples 3.2 Life cycle and pathogenicity of Fasciola hepatica 3.3 Parasitic Adaptations in helminthes Phylum Nematelminthes 3.4 General characters and classification up to classes with suitable examples 3.5. Life cycle and pathogenicity of Ascaris lumbricoides

Unit – IV

Phylum Annelida 4.1 General characters and classification up to classes with suitable examples. 4.2 Vermiculture - Scope, significance, earthworm species, processing, Vermicompost, economic importance of vermicompost Phylum Arthropoda 4.3 General characters and classification up to classes with suitable examples 4.4 Vision and respiration in Arthropoda 4.5 Metamorphosis in Insects 4.6 Peripatus - Structure and affinities 4.7 Social Life in Bees .4.8 Economic Importance of Bees.

Unit – V

Phylum Mollusca 5.1 General characters and classification up to classes with suitable examples 5.2 Pearl formation in Pelecypoda 5.3 Sense organs in Mollusca Phylum Echinodermata 5.4 General characters and classification up to classes with suitable examples 5.5 Water vascular system in star fish 5.6 Larval

   
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