



Detail Course Outline:

Paper A:

30 Marks

INVERTEBRATES

Classification (up to orders) and general organization (structure, function, mode of life, reproduction and life cycles, adaptations. Distribution, and economic importance) of the following groups. Types wherever mentioned shall be used for understanding the structure and function problems in the groups. In addition, special topics mentioned in each group shall be dealt with in greater detail.

Protozoa:

General organization. Special aspect: Parasitism

Porifera: Type: Sycon, General Organization. Special aspect: Canal system

Coelentrata: Type: Obelia. General organization .Special aspect: Polymorphism coral and coral reefs.

Platyhelminthes: Type: Fasciola, General organization Special aspect: Parasitic adaptations.

Aschelminthes: Diagnostic features **Type:** Ascaris.

Annelida: Type: Leech. General Organization. **Special aspect:** Coelom, Metamerism, Development.

Minor Phyla: Diagnostic features only.

Mollusca: Type: Unio. General organization. **Special aspect:** Shell, Foot and Locomotion, Feeding and respiration.

Arthropoda: type: Cockroach, General organization .**Special aspect:** Feeding, Metamorphosis, Appendages and Locomotion.

Echinodermata: Type: Star fish, General organization .**Special aspect:** Skeleton and Larval forms.

PART-1 INVERTEBRATE PRACTICALS

- (a) **Dissection:** Unio, Leech, Cockroach.
- (b) **Examination of Prepared slides:**