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# Syllabus

## Chapter -I:

1. Classification of Non-Chordata.
2. Phylum Protozoa: General characters.
3. Type study: *Plasmodium vivax*: Structure, Life-cycle.
4. Parasitic protozoan and human diseases': Malaria, Amoebiasis, Trypanosomiasis, Leishmaniasis

## Chapter -II:

1. Phylum Porifera: General Characters.
2. Type study: *Scypha*: Habits and habitat, External features, cell types, spicules & Structure and significances of canal system.
3. Phylum Coelenterata: General Characters,
4. Type study: *Metridium*: Habits and habitat, External features, Gastro-vascular cavity, Mesenteries, Reproduction.

## Chapter -III:

1. Phylum Platyhelminthes: General Characters.
2. Type study: *Fasciola hepatica*: Habits and habitat, External features, Digestive, Excretory, Reproductive system and Life cycle.
3. Phylum Aschelminthes: General Characters.
4. Type study, *Ascaris lumbricoides*: Habits and habitat, External features, Digestive, Excretory, Reproductive system and Life cycle.

## Chapter -IV:

1. Phylum Annelida: General Characters.
2. Type study: Leech: External features, Digestive, Excretory, Reproductive system.
3. Phylum Arthropoda: General Characters
4. Type study: Cockroach: Habits and habitat, External features, Digestive system, Respiratory system, Reproductive system.

## Chapter -V:

1. Phylum Mollusca: General Characters.
2. Type study: *Pila globosa*: Habits and habitat, External features (Shell and Body), Digestive, Respiratory and Reproductive system.
3. Phylum Echinodermata: General Characters.
4. Type study: *Asterias*: Habits and habitat, External features, Digestive system, Water vascular system,

## Chapter -VI:

1. Phylum Hemichordata: General Characters, Body organization of *Balanoglossus*, Affinities of *Balanoglossus*, with non-Chordata, and Chordata.
2. Corals, coral-reefs.
3. Parasitic adaptations in Helminthes: Morphological and physiological
4. Larval forms and their significance: Amphiblastula, Planula, Trochophore, Bipinnaria, Brachiolaria