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PART - I

(PAPER 1: UNIT 1)

(Diversity & Functional Anatomy of Non-chordate & Chordate Forms)

[Note: Classification will be dealt in practical section of the course]

Group A: Non chordate

Marks = 25

1. Animal architecture and Bauplan concept.
 2. Classification up to Phylum of Protozoa (according to Levine *et. al.*, 1981); from Phylum to living Subclass with reasons of other non-chordates (according to Ruppert and Barnes, 1994)(Invertebrate chordates excluded)
 3. Movement: Amoeboid movement: Mechanism of pseudopodia formation by cytoskeletal proteins. Flagellar movement in *Euglena* – ultra structure of Flagella and mechanism of locomotion
 4. Reproduction in *Paramoecium* sp. with special reference to conjugation
 5. Canal system in Porifera
 6. Polymorphism in Siphonophores and its evolutionary significance
 7. Coral reef: Types, distribution in India and conservation aspects
 8. Metamerism in Annelida and its evolutionary significance
 9. Respiration: Terrestrial respiration in *Periplaneta* – Structure of tracheal system and mechanism of respiration. Aquatic respiration in Prawn—structure and types of gills and mechanism of respiration.
 10. Nervous system in *Pila* and effect of torsion on it. Nervous system in *Aplysia* and effect of de-torsion on it.
 11. Water vascular system in *Asterias* sp.
 12. Structural organization of Placozoa

Marks = 25

1. Basic body plan in chordates. Basic concept of chordate classification. Classification up to living Subclass of Fish and Aves; up to living Order of Amphibia and Reptilia; up to Infra-class of Mammals (according to J. Z. Young 1981)
 2. Structure of pharynx and feeding mechanism in *Branchiostoma* sp.
 3. Metamorphosis in *Ascidia* – justification in the light of survival of the species
 4. Comparative anatomy & structural organization of aortic arches in vertebrates.
 5. Accessory respiratory structure in teleosts
 6. Paedomorphosis with special reference to Axolotl larva
 7. Non-poisonous and poisonous snakes; Poison apparatus and biting mechanism of poisonous snake
 8. Distinguishing features of Ratites and Carinates
 9. Feather of Birds – its type, development, structure, colour variations as adaptive feature and function
 10. Exoskeletal structure in Mammals – hair, horns and antlers
 11. Distinguishing features of Artiodactyla and Perissodactyla.
 12. Functional anatomy of ruminant stomach in cows.

[Note: Eight short questions of 2 marks to be set from both the Groups, of which 5 will be answered. 4 questions from Group A and 4 questions from Group B to be set. Each question will be of 10 marks. Students will answer 2 questions from each group.]

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Invertebrate zoology. Invertebrate zoology textbook.

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