GROUP - A

PAPER-IV ICHTHYOLOGY - ANATOMY AND PHYSIOLOGY

(Questions will be set from each Unit)

- UNIT-I 1. Origin and evolution of fishes. 2. Major groups of living fishes. 3. Major groups of extinct fishes. 4. Clasiciation of fishes. 5. Origin and evolution of paired fishes. 6. Hill Stream fishes & Deep Sea fishes.
- UNIT II Integuments - Scalation, Colouration, light organs and poison glands.
 - pridante b2. Fins - Types, structure, modification and function of fins.
 - Endoskeleton of typical taleost.
 - netasibild4 Digestive system - modification of alimentary canal, physiology of digestion.
 - Inrvivorous fishes. 5 Growth of fishes.
- UNIT III Respiration - Structure and function of respiratory organs, physiology of respiration, Accessory respiratory organs in fishes. STUDA ME 2.18
 - Adaptations for air breathing among fishes.
 - Structure, function, origin and evolution of air bladder. 3.
 - Blood Vascular System in fishes. 4.
 - Excretion and Osmoregulation in fishes. 5.
 - Sound producing and Electricity producing organs in fishes. 6.
- UNIT IV Nervous System in fishes. 2. Sense organs in fishes. 3. Endocrine glands in fishes. 4. Reproductive organs and physiology of reproduction. 5. Fertilization and development in fishes (Ovoparity, Viviparity, Ovoviviparity). 6. Parental care in fishes.