

B Sc Zoology III Semester Question Bank

Animal diversity Vertebrates and Developmental Biology

UNIT – I

1. Urochordata, Cephalochordata, Cyclostomata
2. Salient features of Urochordata
3. Retrogressive metamorphosis and its significance in Urochordata
4. Salient features and affinities of Cephalochordata
5. General characters of Cyclostomata
6. Comparison of the Petromyzon and Myxine
7. General characters and classification of Chordata upto orders with examples.
8. General characters of Fishes
9. Classification of fishes up to order level with examples
10. Scoliodon – Respiratory, Circulatory and Nervous system.
11. Types of Scales and types of Fins

UNIT – II

1. General characters of Amphibians & Classification of Amphibians up to orders with examples.
2. Rana tigrina - Respiratory, Circulatory and Nervous system.
3. Parental care in amphibian
4. neoteny and paedogenesis
5. General characters of Reptilia & Classification of Reptilia up to orders with examples
6. Calotes – Respiratory system, Circulatory and Nervous system
7. Temporal fosse in reptiles and its evolutionary importance
8. Distinguished characters of Poisonous and Non poisonous snakes.

UNIT – III

1. Aves General characters of Aves & Classification of Aves up to orders with examples.
2. Columba livia -, Digestive system, Circulatory systems, Respiratory system and Nervous system.
3. Migration in Birds
4. Flight adaptation in Birds
5. General characters of Mammalia& Classification of Mammalia up to orders with examples
6. Rabbit –Digestive, Respiratory, Circulatory and Nervous system.
7. Dentition in mammals
8. Aquatic adaptations in Mammals.

UNIT – IV

1. Gametogenesis (Spermatogenesis and Oogenesis)
2. Fertilization
3. Types of eggs
4. Types of cleavages
5. Development of Frog up to formation of primary germ layers
6. Formation of Foetal membrane in chick embryo and their functions
7. Types and functions of Placenta in mammals
8. Regeneration in Turbellaria and Lizards