



**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 3rd Semester Examination, 2020

**GE-ZOOLOGY**

Full Marks: 40

**ASSIGNMENT**

*The figures in the margin indicate full marks.*

**The question paper contains GROUP-A, GROUP-B, GROUP-C. Candidates are required to answer any *one* from the *three* Groups and they should mention it clearly on the Answer Book.**

**GROUP-A**

**ANIMAL DIVERSITY**

**Answer any *four* questions from the following**

10×4 = 40

1. Write the general characteristics of the Subkingdom Protozoa with two examples.
2. Give the general characteristic features of the Phylum Cnidaria with suitable examples.
3. Mention the general characteristic features of the Phylum Annelida with suitable examples.
4. Give the general characteristic features of the Phylum Mollusca with suitable examples.
5. Write the general characteristic features of Urochordates with suitable example.
6. Discuss different types of migration strategies in fishes with suitable example.
7. Write the general characters of class Amphibia with suitable examples.
8. Give an account on poison apparatus of snakes and biting mechanism with proper illustrations.

**GROUP-B**  
**INSECT VECTORS AND DISEASES**

**Answer any *four* questions from the following**

10×4 = 40

1. Discuss briefly with schematic diagram the different types of mouth parts found in insects with examples.
2. Briefly explain how insects act as mechanical and biological vector.
3. Write different types of malaria-parasite and discuss the life cycle of one malaria-parasite with suitable diagram.
4. Write down causative agent, disease transmission and symptoms of plague.
5. Elaborately discuss the different diseases caused by *Pediculus humanus humanus*. Write about the control measures for *Pediculus*.
6. Briefly describe and differentiate between *Culex* and *Anopheles* mosquitoes with a proper schematic diagram.
7. Give a detailed account of Japanese Encephalitis (JE) explaining disease symptoms, diagnosis and curative measures with schematic diagram representing its pathogenic cycle.
8. “Compound eyes have multiple small eyes, each of which perceives their own image” explain the statement by elaborating different parts of compound eyes with a suitable diagram.

**GROUP-C**  
**AQUATIC BIOLOGY**

**Answer any *four* questions from the following**

10×4 = 40

1. What are producers, consumers and decomposers? Discuss the significance of decomposers in the ecosystem.
2. Write a brief account on the origin of lakes. Give an account of the classification of lakes.
3. Discuss in details on biogeochemical cycle.

4. Write a brief account on the estuaries and its types. Name some of the major estuaries in India.
5. Define water reuse and conservation and explain the methods adopted to conserve water in industries.
6. Write down the chief ecological features of marine environment. Add a note on the zonation of the sea and the communities of the marine ecosystem.
7. Explain in brief the theories of coral reef formation.
8. Describe in details the various deep sea adaptations of the organisms.

—x—