Tribhuvan University

Bachelor Level (4 Yrs) Sc. & Tech. **Full Marks : 100**
Course Title : Non-chordata and Protochordata **Pass Marks : 35**
Course No. : B. Sc. Zool. 101 **Year : I**

Sample of Questions

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Illustrate your answers with suitable diagrams wherever necessary.

Group A

Attempt any two questions only 2x10=20

1. Give the life cycle, pathogenicity and control measures of *Giardia lamblia*
2. What is polymorphism? Explain it with example of *Obelia* colony.
3. What are the types of nephridia in Annelida? Discuss the structure of a nephridium of *Hirudinaria*.

Group B

Attempt any two questions only 2x10=20

4. Give an account of the habit, habitat and external features of *Periplaneta.*
5. Give an account of larval forms in Echinodermata.
6. Discuss the affinities of *Amphioxus* (*Brachiostoma*) with the allied groups of animal.

Group C

Attempt any eight questions only 8x5=40

7. What is Taxonomy? What does it offer to Zoology?
8. Explain the structure of sycoid type of canal system among the Porifera.
9. Discuss on dispersal, damage caused and control measures of African Giant Land Snail.
10. Write an account of economic values of Annelida.
11. Give an account of the microfilaria of *Wuchereria bancrofti.*
12. Illustrate the life cycle of *Babesia bigemina*.
13. Describe the siphoning type of mouthparts of insects.

14. List out the class characteristics of Cephalopoda and Gastropoda.

15. Write an account of social behavior of the termites.

16. Describe coelom in *Balanoglossus.*

17. Give very short answers of any eight of the followings: 8 x 2.5=20

i. Coral bleaching

ii. Pathogenicity caused by *Ancylostoma duodenale*

iii. Differences between ticks and mites

iv. Statocyst in *Unio*

v. Stone canal in starfish.

vi. Meaning of retrogressive metamorphosis

vii. Economic importance of *Aedes aegypti*

viii. Taxonomic importance of spicules.

ix. Meaning of Metagenesis

x. Control measures of *Taenia solium*

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