

Tribhuvan University

2080 (Regular)

Bachelor Level 4 Yrs. Prog./1<sup>st</sup> Year/Science & Tech

Zoology (Non-Chordata & Protochordata)

Full Marks: 100

(Zool.101)

Time: 3 hrs.

*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"**

[2×10=20]

Attempt any TWO questions.

1. Explain life cycle pathogenicity and control measures of Entamoeba histolytica.
2. Describe polymorphism in coelenterata.
3. Describe morphological and physiological adaptations of helminth parasites.

**GROUP "B"**

[2×10=20]

Attempt any TWO questions.

- ~~4~~ Give an account of the digestive system of prawn.
5. Describe larval form of Echinodermata.
6. Discuss the affinities of Balanoglossus.

**GROUP "C"**

[8×5=40]

Attempt any EIGHT questions.

7. What is taxonomy? Why it is important? Explain.
8. Give a brief account of the different modes of locomotion in protozoa with examples.

P.T.O.

9. What is pearl? Describe briefly the process of pearl formation in Mollusca.
10. Explain coral bleaching.
11. Describe the structure and control measures of Wuchereria bancrofti.
12. Write a brief notes on Insect Pheromones (Pheromones)
13. Describe life cycle of Sitophilus oryzae.
14. Give a brief account on the types of foot found in Mollusca.
15. Describe the external features of Asterias.
16. What do you mean by Minor Phyla? Give some important features of Rotifera. .

GROUP "D"

[8×2.5=20]

17. Give very short answers of any EIGHT of the followings:
  - a. ICZN
  - b. Vorticella
  - c. Coral and Dinoflagellate symbiosis.
  - d. Phyto-nematode.
  - e. Onychophora
  - f. Stone canal in Asterias
  - g. Parasitic adaptations Hirudinaria granulose
  - h. Uropod of Prawn
  - i. Chewing and lapping mouthparts.
  - j. Cercaria larva.