

Mid-West University
Examinations Management Office

End Semester Examination 2081

Bachelor level/ B. Sc. / 1st Semester

Time: 3 hours

Subject: Taxonomy and Non-Chordata (ZOO413/313)

Full Marks: 60

Pass Marks: 30

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

Group A

Long answer questions (attempt all).

[4x8 = 32]

1. What are metazoans? Explain important theories about their origin.
2. Describe different larval forms of *Fasciola hepatica*.
3. What is metagenesis? Describe it in the context of life cycle of *Obelia*.
4. Describe parasitic adaptations in helminths.

OR

What is reproduction? Describe reproductive organs of *Hirudeneria granulosa*.

Group B

Answer the following questions in short (attempt all).

[7x3 = 21]

5. Classify the phylum Porifera upto order.
6. Explain life cycle of *Enterobius vermicularis*.
7. Describe types and economic importance of coral reefs.
8. Write a short note on fresh water sponges.
9. Discuss the structure and reproduction of *Giardia* in short.
10. What is polymorphism? Write theories about it origin.
11. What is taxonomy? Write its significances.

OR

Explain morphological structure and pathogenicity of *Ancylostoma duodenale*.

Group C

12. Answer the following questions in very short (any seven)

[7x1 = 7]

- a) Define Systematics.
- b) What are functions of spicules?
- c) What type of canal system is found in *Sycon*?
- d) What is coral bleaching?
- e) What is importance of Mehlis gland?
- f) What is cysticercosis?
- g) What is function of statocyst in *Obelia*?
- h) How can you differentiate between male and female hookworm?
- i) What type of coelom is found in annelids?

The End