

Mid-West University
Examinations Management Office

Final Examinations-2080

Bachelor level/ B. Sc. /2nd Semester

Time: 3 hours

Full Marks: 60

Pass Marks:30

Subject: Higher Non-Chordata and Hemichordata (ZOO423)

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

Group A

Answer the following questions in detail. (4x8 = 32)

1. Describe the cephalic appendages of prawn with labeled diagram.
2. Describe the various types of mouth parts in insects with the help of suitable diagram.
3. Explain in short, the economic importances of molluscs with relevant examples.
4. Elaborate the water vascular system in *Asterias*.

OR

Describe, male reproductive system of *Pila* with necessary diagrams.

Group B

Answer the following questions in brief. (7x3 = 21)

5. Write short notes on "economic importance of arthropods".
6. Discuss the digestive organs of *Pila*.
7. What is nuptial flight? Mention the process and significance of nuptial flight in bees.
8. Highlight the structure and function of Shell in molluscs.
9. Describe the external features of *Balanoglossus*.

OR

What is pearl? How it is formed, give process?

10. Mention the characteristic features of gastropoda.

OR

Draw the nervous system of *Pila*. (no description required).

11. Give the structure and function of reproductive organs in prawn in short.

Group C

12. Answer any seven questions in very short. (7x1=7)

- a. What is radula? Give its function.
- b. Mention diagnostic features of Mites.
- c. What are green glands?
- d. Mention the function of Bojanus.
- e. What is the role of statocyst?
- f. Mention the systematic position of *Unio* (upto order).
- g. What is holometabolic metamorphosis?
- h. What is umbo in *Unio*?
- i. Name the larva of *Balanoglossus*.

The End