

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN WILDLIFE MANAGEMENT

DWLM 0111: INVERTEBRATES BIOLOGY

STREAMS: DWLM Y1S2

TIME: 2 HOURS

DAY/DATE: MONDAY 08/04/2024

2.30 P.M – 4.30 P.M.

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any TWO in SECTION B.
- Do NOT write anything on the question paper.

SECTION A: 30 MARKS

1. Define the following terms (5 marks)
 - (a) Classification
 - (b) Eukaryotic organism
 - (c) Metamerism
 - (d) Torsion
 - (e) Systematic
2. Briefly describe the two types of metamorphosis in Arthropods. (4 marks)
3. Outline five evolutionary significance of flight in the Class Insecta. (5 marks)
4. Using an illustration, describe the lifecycle of a tapeworm. (4 marks)
5. Use illustrations to describe the types two body forms in cnidarians. (4 marks)
6. Define cephalization in invertebrates and outline two of its evolutionary importance. (4 marks)
7. Using examples briefly describe the two kinds of symmetry exhibited by invertebrates. (4 marks)

SECTION B (40 MARKS)

8. (a) Explain five functions of coelom in an animal's body. (10 marks)
- (b) Using an illustration, explain the functions of the main body parts in the Phylum Mollusca. (10 marks)
9. (a) Discuss the economic importance of invertebrates. (10 marks)
- (b) Discuss the factors allowing arthropods to be successful in different habitats. (10 marks)
10. Discuss the threats facing coral ecosystems. (20 marks)
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