



UNIVERSITY OF NAIROBI

FIRST SEMESTER EXAMINATIONS 2007/2008

FIRST YEAR EXAMINATIONS FOR THE DEGREE OF BACHELOR OF
SCIENCE

SZL 101: INVERTEBRATE ZOOLOGY

DATE: 3RD APRIL, 2008

TIME: 9.00 A.M. – 11.00 A.M.

Illustrate your answers with labelled diagrams where appropriate.

ANSWER ANY 10 QUESTIONS. (7 MARKS EACH).

1. Distinguish between protostome and deuterostome lines of development.
2. Outline the differences and similarities between platyhelminthes and nematodes.
3. Briefly describe asexual reproduction in protozoa.
4. Using a labelled diagram, describe the anatomical features of the genus *Trypanosoma*.
5. Describe the structure and functions of the cnidarian nematocyst.
6. State three ways in which nematodes are considered more advanced than platyhelminthes.
7. Using labelled flow diagrams only, illustrate the life cycle of the bilharzias parasite *Schistosoma mansoni*.
8. Using a labelled flow diagram, illustrate the typical circulatory system of molluscs.
9. Describe the types of metamorphoses found in insects giving specific examples.
10. Describe the structure and function of the Radula of a herbivorous gastropod.
11. Describe the structural features of a nauplius larva and give an account of its subsequent development in crabs.