

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE AND BACHELOR OF EDUCATION (SCIENCE)

ZOOL 101: LOWER INVERTEBRATES

STREAMS: BSC,BED(SC) Y1S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 13/12/2018

2.30 P.M -4.30 P.M

INSSTRUCTIONS:

- Answer all questions in section A and any other two in section B
- Do not write anything on the question paper

SECTION A (30 MARKS)

1. Distinguish between phyla Cnidaria and Ctenophora. [5 marks]
2. Outline five characteristics of nematodes. [5 marks]
3. Describe five types of cells found in sponges. [5 marks]
4. Explain briefly the feeding mechanism in protozoa. [5 marks]
5. Citing examples of organisms, state the functions of the following structures: [5 marks]
 - (a) Contractile vacuole
 - (b) Corona
 - (c) Flame cell
 - (d) Cysts
 - (e) Nematocyst
6. Use a diagram to illustrate the structure of Acanthocephala. [5 marks]

SECTION B (40 MARKS)

7. (a) Explain the mechanism of reproduction in sponges. [14 marks]
(b) Describe the mechanism of support in poriferans. [6 mark]
8. (a) Explain dimorphism in cnidarians. [4 marks]
(b) Describe the classification of phylum Cnidaria giving examples where appropriate. [16 marks]
9. (a) Discuss the features that indicate evolutionary advancement of roundworms over flatworms. [8 marks]
(b) Describe the classification of phylum Platyhelminthes. [12 marks]
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