



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2022/2023

FIRST YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY, BACHELOR OF
EDUCATION SCIENCE AND BACHELOR OF SCIENCE IN BIOTECHNOLOGY

SZA 3100: INVERTEBRATE ZOOLOGY

DATE: AUGUST 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Explain leg modifications in insects. (5 marks)
- b) Outline differences between vertebrate and invertebrate animal groups. (5 marks)
- c) Give five types of cells found in poriferans (sponges) and their functions. (5 marks)
- d) Outline polymorphisms in coelenterates. (5 marks)
- e) Give the characteristic features of Platyhelminthes. (5 marks)
- f) Mention five functions of setae (chaetae) in annelids. (5 marks)

QUESTION TWO (20 MARKS)

Explain the phylogeny and adaptive radiation of cnidarians.



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

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QUESTION THREE (20 MARKS)

Discuss the physiology of protozoans.

QUESTION FOUR (20 MARKS)

Give a detailed account of insects' success and abundance in the biosphere

