



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF PURE AND APPLIED SCIENCE

DEPARTMENT OF APPLIED SCIENCE

UNIVERSITY ORDINARY EXAMINATION

2017/2018 ACADEMIC YEAR

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF
SCIENCE IN INDUSTRIAL CHEMISTRY**

AZL 101 – GENERAL ZOOLOGY

DURATION: 2 HOURS

DATE: 20TH APRIL, 2018

TIME: 2.00 – 4.00 P.M.

Instructions to Candidates:

1. Answer **Question 1** and **Any Other Two** questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A – ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE

- a) Explain how the earth may have been formed according to the “Big Bang” theory. (5 marks)
- b) Outline the evidence supporting the hypothesis that the Protista evolved from the Monera group. (5 marks)
- c) Discuss the possible causes for the sudden extinctions of the dinosaurs at the end of the Mesozoic era. (5 marks)
- d) Distinguish between macroevolution and microevolution. (5 marks)
- e) Using a well labeled diagram, illustrate the structure of Amphioxus. (5 marks)
- f) Outline the distinguishing characteristics of Prosobranch and Pulmonate gastropods. (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO

- a) Discuss the various animal classification systems. (20 marks)

QUESTION THREE

- a) Discuss the distinguishing characteristics of the Phylum Platyhelminthes (flat worms) and the Phylum Nematoda (round worms). (20 marks)

QUESTION FOUR

- a) Describe the three clades of the Deuterostomes. (20 marks)