



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF APPLIED SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2017/2018 ACADEMIC YEAR

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF EDUCATION**

AZL 100 – GENERAL ECOLOGY

DURATION: 2 HOURS

DATE: 15TH DECEMBER, 2017

TIME: 9.00 – 11.00 A.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

1. Explain why ecology is considered as a science. (5 marks)
2. Outline the various levels at which ecology can be studied. (5 marks)
3. State the main factors that influence the distribution and abundance of organisms in nature. (5 marks)
4. Outline the classification of phytoplankton inhabiting fresh water ecosystems. (5 marks)
5. Evaluate the various methods of describing energy flow in ecosystems. (5 marks)
6. Distinguish between r- and k- selected species. (5 marks)

SECTION B – Answer any TWO Questions

7. Describe the various groups of aquatic macrophytes. (20 marks)
8. Discuss the impacts of clearing water catchment forests. (20 marks)
9. Giving specific examples, explain how animal survival curves differ. (20 marks)