



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

UNIVERSITY ORDINARY EXAMINATION

2018/2019 ACADEMIC YEAR

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR, DIPLOMA IN
CIVIL ENGINEERING**

SEB 1319 - ENVIRONMENTAL SCIENCE

DURATION: 2 HOURS

DATE: 14/12/2018

TIME: 9 – 11 A.M.

Instructions to candidates:

1. Answer question One 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 (30 MARKS)

- a. Define the term Biodiversity and highlight the major threats to Biodiversity (5 Marks)
- b. Briefly state the various benefits/advantages of carrying out Environmental Impact Assessment (EIA) of a proposed Civil Engineering project (5 Marks)
- c. Give a brief account on the concept of Biotic and Abiotic components of an Ecosystem and clearly give examples in each case (5 Marks)
- d. Define the term Ozone Depletion and highlight the various agents responsible for Ozone Depletion (5 Marks)
- e. Highlight the various measures/steps that the Kenyan government is undertaking to ensure Environmental Protection and Conservation in Kenya (5 Marks)
- f. Comment upon the major environmental impacts of mining activities and minerals extraction in the developing countries (5 Marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Forests have an enormous potential and benefits for human welfare, wildlife and environment.

Discuss (20 Marks)

QUESTION THREE (20 MARKS)

Give an account of the causes and the adverse effects of water pollution and enumerate the various methods/measures that can be used for control of water pollution (20 Marks)

QUESTION FOUR (20 MARKS)

Discuss the major limitations to the successful implementation of the Environmental Legislation in Kenya (20 Marks)