



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL STUDIES AND COMMUNITY DEVELOPMENT
ENS 134: TECHNOLOGY DEVELOPMENT AND ENVIRONMENT

DATE: 27/9/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

SECTION A

QUESTION ONE (30 MARKS)

- a) Explain the following: -
- i. Development (2 marks)
 - ii. Technology (2 marks)
 - iii. Innovations (2 marks)
 - iv. Industrialization (2 marks)
 - v. Urbanization (2 marks)
- b) Citing relevant examples, explain the measures you recommend in promoting technology uptake and implementation in Kenya today (10 marks)
- c) Explain five different technologies used to enhance natural resource protection in Kenya (10 marks)

QUESTION TWO (20 MARKS)

Discuss the role of eco-innovations in climate change mitigation and adaptation in Kenya

QUESTION THREE (20 MARKS)

Citing relevant examples, discuss the challenges associated with urbanisation in Kenya

QUESTION FOUR (20 MARKS)

Using appropriate examples, discuss how technology can be used to promote sustainable environmental management in Kenya

QUESTION FIVE (20 MARKS)

Discuss the relationship between technology, development and environment