



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF
SCIENCE IN ENVIRONMENTAL CONSERVATION MANAGEMENT**

ERC 214: INTRODUCTION TO MINERAL RESOURCES AND CONSERVATION

Date: 29/11/2016

Time: 11:00 – 1:00 PM

INSTRUCTIONS:

Answer ALL questions in section A and ANY TWO questions in section B

SECTION A: 30 MARKS

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the following terminologies
 - i) Mineral (1 mark)
 - ii) Resource (1 mark)
 - iii) Preservation (1 mark)
- b) Explain six importance of mineral resources development in Kenya (12 marks)
- c) State five types of mineral in Kenya, indicating their distribution in Africa (15 marks)

SECTION B: 40 MARKS

QUESTION TWO (20 MARKS)

Discuss the five methods and ways of minimizing mineral depletion in Kenya. (20 marks)

QUESTION THREE (20 MARKS)

Discuss the contribution of mining to attainment of sustainable development goals (SDGs) in Africa (20 marks)

QUESTION FOUR (20 MARKS)

Using a case study of Kwale Mineral Sands Project in Kwale County, Kenya discuss the following:

- i) Its Objectives (5 marks)
- ii) Achievements/impacts (5 marks)
- iii) Lessons learnt (5 marks)
- iv) Opportunities for improvement (5 marks)

QUESTION FIVE (20 MARKS)

Explain the guidelines for rational use and conservation of raw minerals in Africa (20 marks)