



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEARSEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ERC 214: INTRODUCTION TO MINERAL RESOURCES CONSERVATION

DATE:

TIME:

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Briefly discuss how mineral resources contribute to the achievement of any **ONE** of the government's Big Four Agenda (10 marks)
- b) Outline the critical roles of stakeholders in the management of mineral resources in an area (10 marks)
- c) Using a specific illustration, discuss the adverse impacts of mining on the atmosphere (10 marks)

QUESTION TWO (20 MARKS)

Discuss various ways in which an area can be put into productive use after mining activities are completed in the area

QUESTION THREE (20 MARKS)

Discuss various ways to ensure mining operations in Kenya are sustainable

QUESTION FOUR (20 MARKS)

Give a detailed account of the strategies you would put in place to ensure adverse environmental impacts of coal mining in Kitui County are minimized

QUESTION FIVE (20 MARKS)

Discuss the need for and various forms of monitoring mechanisms required to guide mining operations in a given area