

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied & Health Sciences

Department of Environment & Health Sciences

University Examination for the Degree of Bachelor of Science in Marine
Resource Management

BSMR 13S/YEAR 3/SEMESTER 2

Code: AES 4312: Marine living and non-living resource management

SEMESTER EXAMINATION

SERIES: MAY/2016

TIME: 2HRS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions

This paper consists of two printed pages

EXAM

AES 4312: MARINE NON-LIVING AND LIVING RESOURCE MANAGEMENT Paper 1

QUESTION ONE (30 MARKS)

- a) List the main reasons why iron is presumed to be the main constituent of the Earth's core.
- b) What are the 4 key characteristics about Earth's structure?
- c) Briefly describe the main classes of earth's materials
- d) Define the following terms 'lithosphere' and 'asthenosphere'
- e) What are compressional/longitudinal and shear/transverse waves?
- f) List the main methods used for mining of minerals in nearshore waters

QUESTION TWO (20 MARKS)

Using a schematic diagram, describe the internal structure of the earth and outline the methods used by scientists to infer this knowledge

QUESTION THREE (20 MARKS)

Discuss the process of mineralization associated with plate tectonics.

QUESTION FOUR (20 MARKS)

State and explain the potential impacts of oil and gas exploration in Kenya

QUESTION FIVE (20 MARKS)

Explain and briefly describe the main methods used in geophysical exploration of mineral ore deposits