



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

**FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
WATER RESOURCES MANAGEMENT**

AWM 104: FUNDAMENTALS OF GEOLOGY

DATE: APRIL 12, 2017

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

- a) Briefly describe the THREE main sub-disciplines of geology. (6 marks)
- b) Explain the following terms as used in geology. (6 marks)
 - i. Geosphere:
 - ii. Minerals:
 - iii. Lithification:
- c) Describe THREE styles of convergent plate boundaries. (6 marks)
- d) Describe THREE types of glacial deposits. (6 marks)
- e) Briefly describe the distinguishing characteristics of deserts. (6 marks)

QUESTION TWO

The highlands of East Africa are dominated by volcanic mountains. Discuss the types of extrusive volcanism that may have resulted in the formation of such mountains. (20 marks)

QUESTION THREE

Describe the rock cycle. (20 marks)

QUESTION FOUR

- a) Describe the FIVE characteristics of the structure of the Earth. (10 marks)
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- b) Briefly describe FIVE physical properties used to describe minerals. (10 marks)

QUESTION FIVE

- a) Discuss the geological structures that have formed in the East African region due to rocks undergoing stress. (14 marks)
- b) Describe THREE factors that influence mass wasting in parts of Elgeyo Marakwet County. (6 marks)

END