



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 102: PHYSICAL GEOGRAPHY I

DATE: 8/5/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and any other Two Questions

QUESTION ONE (30 MARKS)

- a) Using appropriate examples, discuss the classification of rocks as being igneous, sedimentary and metamorphic. (8 marks)
- b) Using a well-illustrated sketch diagram Describe the internal structure and composition of the Earth (5 marks)
- c) Explain the layers of the atmosphere using an appropriate sketch drawing (5 marks)
- d) Outline six ways in which human activities are changing the Earth (12 marks)

QUESTION TWO (20 MARKS)

- a) Explain the four realms, or spheres, of the Earth which characterize the natural systems in physical geography (12 marks)
- b) Analyze the major concerns of the following branches of physical geography.

- i. Geomorphology (4 marks)
- ii. Glaciology (4 marks)

QUESTION THREE (20 MARKS)

- a) Analyze the physical features formed by water as an agent of erosion, transportation and deposition. (8 marks)
- b) Analyze the formation of the following using diagrams where applicable (12 marks)
 - i. Rift valley
 - ii. Igneous rocks
 - iii. Metamorphic rocks
 - iv. Sedimentary rocks

QUESTION FOUR (20 MARKS)

With relevant examples, give a detailed explanation of Plate Tectonics and Continental Drift theories.

QUESTION FIVE (20 MARKS)

Using diagrams, describe the following land forming concepts used in physical geography

- a) Isostasy
- b) Compressional and tensional forces.
- c) Continental drift
- d) Oxbow lake