



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 201: PHYSICAL GEOGRAPHY

DATE: 3/12/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Describe the relationship between the terms Lithosphere, Atmosphere, Hydrosphere and Biosphere (3 marks)
- b) List three factors which strongly influence the evolution of coastal landscapes (3 marks)
- c) Diagrammatically describe and ideal soil profile. What factors influence the development of a soil profile? (5 marks)
- d) Explain the influences of processes of wind erosion (Aeolian processes) on man (5 marks)
- e) State and explain the main properties of ecosystems. (5 marks)
- f) Briefly discuss the concept of the ecosystem (4 marks)
- g) Explain FIVE (5) factors influencing coastal morphology (5 marks)

QUESTION TWO (20 MARKS)

- a) What do you understand by the term weathering? (5 marks)
- b) Give an in-depth description of the different types of weathering processes (15 marks)

QUESTION THREE (20 MARKS)

- a) Identify and explain any three hydrologic processes within a river basin. (9 marks)
- b) Using an illustration, explain what is meant by river regimes. (6 marks)
- c) Explain the significance of ground water resources. (5 marks)

QUESTION FOUR (20 MARKS)

- a) Describe and critique William Davis Morris' theory of landscape development. (5 marks)
- b) Using illustrations where possible, describe FIVE (5) types of slope processes (5 marks)
- c) Examine the factors that determine the global distribution of each of the following elements; temperature, evaporation and precipitation (5 marks)
- d) Describe the composition and formation of soil (5 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the components of the hydrologic cycle. (10 marks)
- b) Distinguish between exogenic and endogenic factors in rock weathering. (10 mark)