MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

SPECIAL/SUPPLEMENTARY EXAMINATION FOR BACHELOR OF ARTS (BA)/ BACHELOR OF EDUCATION (B.ED)
AGE 201: PHYSICAL GEOGRAPHY II

Date: **Time:** **2 Hours**

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

[3marks]

(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]

(d) 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]

c) 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]