



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF EDUCATION (SPECIAL NEEDS)

BACHELOR OF ARTS

AGE 102: PHYSICAL GEOGRAPHY I

DATE: 13/8/2021

TIME: 11:00 – 1:00 PM

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS.

QUESTION ONE (30 Marks)

1. Distinguish between the terms Lithosphere, Atmosphere, Hydrosphere and Biosphere (4 marks)
2. Write short notes on (6 marks)
 - a. Endogenic processes
 - b. Exogenic processes and
 - c. Radioactive isotopes
3. Differentiate between Era and Period in Geological time scale (2 marks)
4. Differentiate between P and S waves (2 marks)
5. Outline six classes of evidence to prove that Gondwanaland and Laurasia actually existed, and that they drifted to their present positions (6 marks)
6. Differentiate the terms Meteorology and Climatology (4 marks)
7. Write short notes on: (6 marks)
 - a. Urban heat Island
 - b. Solar radiation
 - c. Coriolis force

QUESTION TWO (20 MARKS)

- a) Discuss the origin of the universe using the Steady Theory (10 marks)
- b) Outline the advantages and disadvantages of the various dating techniques (10 marks)

QUESTION THREE (20 MARKS)

With an aid of a diagram, describe the internal structure of the earth

QUESTION FOUR (20 MARKS)

- a) Examine the three different types of plate boundaries (10 marks)
- b) Describe the mode of formation of Igneous, Sedimentary and Metamorphic rocks (10 marks)

QUESTION FIVE (20 MARKS)

- a) Using a diagram, describe how the atmosphere may be divided on the basis of vertical temperature differences. (10 marks)
- b) Trace the origin and evolution of climatology over time. (10 marks)