



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2018/2019

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF EDUCATION ARTS

### EGE 3101: INTRODUCTION TO PHYSICAL GEOGRAPHY

DATE: SEPTEMBER 2019

TIME: 2 HOURS

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INSTRUCTIONS: Answer question *one* and any other *two* questions

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#### QUESTION ONE (30 MARKS)

- a) The earth is made up of three concentric layers. The core, mantle and crust. Discuss each of them and give their chemical composition (12 marks)
- b) Differentiate between transpiration and evapotranspiration in the water cycle (4 marks)
- c) Discuss the long-wave radiation as viewed by modern geographers and the role it plays in the greenhouse effect (6 marks)
- d) State and explain two types of light reflection as studied in geography (4 marks)
- e) Glacial moves basically because of gravitational force. Erosion by glacial is tremendous because of friction caused by sheer weight of the ice. Discuss two landforms which occur as a result of glacial (4 marks)

#### QUESTION TWO (20 MARKS)

State and explain five factors affecting the receipt of solar radiation on the earth surface (20 marks)

**QUESTION THREE (20 MARKS)**

Human beings have both positive and negative impact on the earth. Discuss the five impacts of human activities on biosphere (20 marks)

**QUESTION FOUR (20 MARKS)**

- a) Phytogeography is a branch of geography that is concerned with the distribution of plant species and their influence on the earth's surface. Discuss (15 marks)
- b) Explain the concept of zoogeography as conceptualized by geographers (5 marks)

**QUESTION FIVE (20 MARKS)**

Water exists in the biosphere, lithosphere, and hydrosphere. Among all these segments, water is in continuous circulation commonly known as hydrological cycle. State and explain 10 various components of hydrological cycle (20 marks)