

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THARAKA UNIVERSITY COLLEGE

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

GEOG 110: INTRODUCTION TO PHYSICAL GEOGRAPHY

STREAMS: BED (ARTS)

TIME: 2 HOURS

DAY/DATE: MONDAY 09/12/2019

11.30 A.M. – 1.30 P.M.

**INSTRUCTIONS:**

- (i) Answer question ONE and any other TWO questions
- (ii) Use sketch maps and diagrams whenever they serve to illustrate an answer

**QUESTION ONE**

- (a) Briefly describe the structure of the earth and state the three major sources of energy driving its processes [9 marks]
- (b) Describe any two current techniques in environmental research [6 marks]
- (c) Define physical environment [3 marks]
- (d) List SIX elements of physical environment [6 marks]
- (e) State evidences that support the theory of Plate Tectonics [6 marks]

**QUESTION TWO**

- (a) Giving reasons, describe temperature changes within the four layers of the atmosphere from upwards [8 marks]

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- (b) Explain how human activities have affected the functional capacity of the atmosphere to protect life on earth. [12 marks]

### QUESTION THREE

- (a) Define the Hydrological cycle [2 marks]  
(b) Identify and describe the major components of Hydrologic cycle [10 marks]  
(c) Define ground water storage and state how human activities have affected this sub system [8 marks]

### QUESTION FOUR

Giving examples in East Africa, describe the significance of the following features of faulting:

- (i) Block mountains [5 marks]  
(ii) Tilt blocks [5 marks]  
(iii) Graben [5 marks]  
(iv) Escarpments of fault scarps [5 marks]

### QUESTION FIVE

- (a) Briefly state the FIVE main ideas that has shaped the development of physical geography as a discipline [10 marks]  
(b) Identify and describe the factors that influence the soil formation and development processes in any given region [10 marks]
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