

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION  
ARTS**

**GEOG 302: METEOROLOGY AND CLIMATOLOGY**

**STREAMS: BED (ARTS) (SB) Y3S2**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 06/08/2019**

**11.30 A.M. – 1.30 P.M.**

**INSTRUCTIONS:**

- **Answer question ONE and any other TWO**

**QUESTION ONE**

- (a) Write brief notes on the following terms
- (i) Meteorology (2 marks)
  - (ii) Climatology (2 marks)
- (b) Explain the main factors that affect weather conditions in a specific place. (12 marks)
- (c) Describe the main characteristics of the structure of the atmosphere. (14 marks)

**QUESTION TWO**

- (a) Differentiate between a cyclones and anti-cyclones. (4 marks)
- (b) Explain the major classification of global air masses. (6 marks)
- (c) With aid of a well labelled diagram explain the occurrence of relief rainfall. (10 marks)

**QUESTION THREE**

Using an appropriate diagram, explain the processes and the state of change of water in the atmosphere. (20 marks)

**QUESTION FOUR**

(a) Discuss the main ways of mitigating global climate risk. (10 marks)

(b) Explain the consequences of climate risk. (10 marks)

**QUESTION FIVE**

Explain the ways in which the meteorological data be used. (20 marks)

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