

UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF ARTS IN GEOGRAPHY AND BACHELOR OF EDUCATION ARTS

GEOG 313: CLIMATOLOGY

STREAMS: BA GEOGRAPHY & BED ARTS

TIME: 2 HOURS

11.30 A.M. – 1.30 P.M.

DAY/DATE: TUESDAY 04/12/2018

INSTRUCTIONS:

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• Answer question ONE and ANY OTHER TWO questions. Maps, sketches and diagrams should be used whenever they serve to illustrate an answer.

1. (i) Differentiate between	
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- (a) Climatology and Meteorology (4 marks)
- (b) Regional climatology and applied climatology (4 marks)
- (c) Climate variability and climate change (4 marks)
- (ii) Identify three ways in which Planet Earth is different from the others. (6 marks)
- (iii) With the aid of a diagram, describe the various layers of the atmosphere. (12 marks)
- 2. (a) What is "climate index" (2 marks)
 - (b) Identify the four parameters for defining climate and their various indices.
 - (16 marks) (c) What is "Climate Base Period" and what is its significance in climate studies? (2 marks)
 - (a) What is climate change? (2 marks)
 - (b) Describe any five climate hazards associated with climate change. (18 marks)

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4.	Discus	(20 marks)	
5.	(a)	With reference to the Koppen's Climate Classification system, des characteristics of dry climates.	cribe the (10
marks))	endracteristics of dry enhances.	(10
	(b)	Identify the anthropogenic causes of climate change.	(10 marks)