

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CLIMATE CHANGE AND DEVELOPMENT WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

NCA 201: ATMOSPHERIC CIRCULATION AND CLIMATE CLASSIFICATION

Date: 9th December, 2016

Time: 12.00 - 3.00 pm

INSTRUCTIONS:

- Answer question ONE and any other TWO questions.
- Sketch maps and diagrams should be used whenever appropriate.

ISO 9001:2008 CERTIFIED



la) Define atmospheric circulation of	
 Define atmospheric circulations and explain any three factor 	ors causing it . (10 Marks)
 Explain the effect of inter tropical convergence zone (ITCZ) on climate. 	
	(10 Marks)
 c) Differentiate between land and sea breezes 	(10 Marks).
2. Explain any five effects of atmospheric circulations	(20 Marks).
3a) . Explain the effect of Chinook on a region's climate	(10 Marks)
 b) Differentiate between mountain and valley winds. 	(10 Marks).
4. Explain the effects of any five air masses on the weather	r of a region. (20 Marks).
5a) State the elements of weather used in Koppen's climate	classification.
	(4 marks).
 b) Describe any four Koppen's climatic regions. 	(16 Marks)
State the climatic characteristics of the following climatic regions	
a) Semi arid climate b) Polar climate	(10 Marks) · (10Marks)