

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN EARTH SCIENCE WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

NGA 203: PHYSICAL OCEANOGRAPHY

Date: 15th January, 2016

Time: 8.30 - 10.30 am

INSTRUCTIONS:

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



NGA 203: PHYSICAL OCEANOGRAPHY

1.	 Describe two types of deep water waves and two types of shallow water waves. 		
	b. Examine the main classification of estuaries. c. Discuss the factors that determine seawater salinity. d. Explain the roles of latent heat and sensible heat in enerocean currents.	(8 marks) (10 marks) (6 marks) rgy transfer by	
	ocean currents.	(6 marks)	
2.	Examine the primary structure of ocean waters as a function of depth.		
3.	Discuss surface and deep ocean currents and their roles in a regulation.	(20	
4.	Discuss the distinct characteristics of each of the following parts of the ocean:		
	a. Pacific Ocean. b. Atlantic Ocean.	(7 marks) (6 marks)	
	c. Indian Ocean.	(7 marks)	
5,	a. Describe the sources and characteristics of ocean sediments and their		
	importance in the geological history of the earth. b. Explain the Coriolis effect.	(15 marks) (5 marks)	
6.	 a. Discuss tidal waves formation and forecasting. b. Discuss the global fresh water budgets. 	(14 marks) (6 marks)	