

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

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

MAIN CAMPUS

NGA 311: RESEARCH METHODOLOGY

Date: 18th April, 2016

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

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



NGA 311: RESEARCH METHODOLOGY

1.	(a) Write short notes on:	
	(i) Ex post facto research.	(3 marks)
	(ii)Motivation in research.	(4 marks)
	(iii) Criteria of good research.	(5 marks)
	(i) Distinguish between Research method and scientific method.	
		(8 marks)
	(c) "The task of defining the research problem often follows a sequential	
	pattern". Explain.	(10 marks)
2.	(a) Explain and illustrate the following research	designs:
	 Simple randomized design. 	(5 marks)
	(ii) Informal experimental design.	(5 marks)
	(b) Describe research designs used in experimental hypothesis-testing	
	research study.	(10 marks)
3.	(a) Describe five different types of research.	(10 marks)
	(b) Discuss the merits and demerits of:	
	(i) Rating and Ranking scales.	(5 marks)
	(ii) Summated and Cumulative scales.	(5 marks)
4.	Explore different methods of collecting data.	(20 marks)
5.	Explain different types of analysis of data and their significance.	
		(20 marks)
6.	(a) Explain the following:	
	(i) Extraneous variables.	(4 marks)
	(ii) Experimental and Control groups.	(6 marks)
	(b) The procedure of testing hypothesis requires	
	steps. Discuss.	(10 marks)