

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN GEOSPATIAL INFORMATION SCIENCE WITH INFORMATION **TECHNOLOGY**

CITY CAMPUS

PGS 311: SPATIAL DATA INFRASTRUCTURE

Date: 21st November, 2016

Time: 9.00 - 12.00, noon

INSTRUCTIONS:

Answer question ONE and any other TWO questions.

PGS 311: SPATIAL DATA INFRASTRUCTURE

INSTRUCTIONS:

Answer QUESTION ONE and any other two Questions

1.		
1.	a. Briefly explain what is meant by Spatial Data Infrast	ructure (SDI).
		(4 marks)
	 b. Discuss 6 components of spatial data infrastructure () 	18 marks)
	 What has led to the establishment of Global Spatial Data 	
	Infrastructure?	(8 marks)
2.	Give reasons as to why Kenya government needs to set a national spatial	
	data infrastructure.	(20 Marks)
3.	What benefits would accrue to the county governments if Kenya	
	government developed a National SDI.	(20 Marks)
4.	With aid of diagram, describe the architecture of a typical S	DI (20 marks).
5.		
	a. What is metadata?	(2 marks)
	 b. Describe three levels of metadata for SDI 	(8 marks)
	 Explain five functions of a clearinghouse in an SDI. 	(10 marks)
6.	Discuss, citing relevant examples how "Huduma Centers" have benefited	
	public service delivery in Kenya.	(20 marks)