

## MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE
OF BACHELOR OF ARTS IN URBAN & REGIONAL PLANNING WITH
INFORMATION TECHNOLOGY

## CITY CAMPUS - REGULAR

PUR 215: INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM (GIS)

Date: 7th December, 2015

Time: 2.00 - 4.00 pm

## INSTRUCTIONS:

Answer THREE questions. Question ONE is COMPULSORY.

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## PUR 215: INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM (GIS)

Answer three questions. Question ONE is Compulsory Maps and should be used whenever appropriate

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1.	The county government of Kisumu in evaluating the coverage of gr spaces in Kisumu city with an intention of increasing the spaces. U information to answer the following questions a) Illustrate three raster overlay functions they used in this analysis		ysis	
	c)	Describe three advantages of using remote sensing as data for identifying green spaces  Explain how the green spaces will be differentiated in the firmap	6 marks	
2.	a) Discuss four ways in which scale influences the final outcom			
	b) c)	Explain the types of data measurement scales used in GIS Describe scales used in representing information on maps		
3.	Exp	plain the elements used in visual interpretation of remote sen	sing images 20 marks	
4.		Planning students identified accident hot spots in Kisumu using GIS. Use this information to answer the following questions		
	a) :	Discuss the layers they developed to identify the hot spots Discuss five challenges they experience in this exercise	10 marks 10 marks	
5.	Dis	cuss the merits and demerits in using GIS for informed decis	ion making 20 marks	
6.	a)	Explain the relevance of geo-referencing and creating a co system in a map	oordinate 6marks	
	b)	Describe the steps in geo-referencing a map	4marks	
	c)	Explain the process of creating a coordinate system	10marks	