

AGE 400: REMOTE SENSING AND RESOURCE MANAGEMENT TIME:

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (30 MARKS)

DATE:

a)

b)

c)

)	Distinguish between:		
	i.	Mie and Raleigh scattering	(4 marks)
	ii.	Landsat MSS and SPOT imagery	(4 marks)
	iii.	Spatial resolution and spectral resolution	(4 marks)
	iv.	Raster model and vector model	(4 marks)
)	Describe the remote sensing process		(8 marks)
)	Explain three reasons why remote sensing is important in resource management		(6 marks)

QUESTION TWO (20 MARKS)

Discuss the processes through which Electromagnetic radiation interacts with the atmosphere

QUESTION THREE (20 MARKS)

a)	Define the term Geographical Information System	(4 marks)	
b)	Assess the relevance of Geographical Information Systems (GIS) to spatial planning		
		(10 marks)	
c)	Explain three ways in which GIS can be applied in solving geospatial problems	(6 marks)	

QUESTION FOUR (20 MARKS)

a)	Describe the advantages of multispectral imaging over air photograph in	land cover			
	monitoring	(10 marks)			
b) Explain how the electromagnetic spectrum interacts with the earth surface features					
		(10 marks)			
QUESTION FIVE (20 MARKS)					
Giving	examples, explain the application of remote sensing in:				
a)	Agriculture	(10 marks)			

b) Forestry mapping (10 marks)