



KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS FOURTH YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE OF (INFORMATION TECHNOLOGY)

COURSE CODE

: BIT 424

COURSE TITLE

: GEOGRAPHIC INFORMATION SYSTEMS

DATE: 12/11/2020

TIME: 2.00 P.M. - 5.00 P.M.

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUI	ESTION ONE (COMPULSORY)	[20] 15 (5)
a	Define the following terms used in GIS	[30 MARKS]
	i. Overlaying	F0.3.6.4.=
	ii. Attribute	[2 Marks]
b	Using relevant example, describe the significance of the use of a GPS in a	[2 Mark]
	research	
C	Distinguish between a passive and active sensor	[5 Marks]
d	Discuss the role of GIS and Remote Sensing in improving Kenyans econo	[6 Marks]
	and Remote Bensing in improving Kenyans econo	my [15 Marks]
QUESTION TWO		
a.		[20 MARKS]
b		[5 Marks]
	c arried and analysis operations carried	
		[15 Marks]
QUESTION THREE		
Desci	ribe the following concepts	[20 MARKS]
a)	Remote Sensing	
b)	Vector based verses Raster Based data Storage	[5 Marks]
c)	Describe the processes involved in a supervised classification of an image	[6 Marks]
	a supervised classification of an image	[9 Marks]
QUESTION FOUR		
Discu	ss the challenges facing the use of Remote Sensing and GIS in the Kenya	[20 MARKS]
	the use of Remote Sensing and GIS in the Kenya	[20 Marks]
QUESTION FIVE		
a)	Describe any basic components of GIS	[20 MARKS]
b)	Describe any five sources of spatial data that can be used in GIS	[10 Marks]
	and that can be used in GIS	[10 Marks]