

DATE:

TIME:

INSTRUCTIONS: ANSWER QUESTION ONE AND TWO OTHER QUESTIONS. USE ILLUSRATIONS WHERE NECCESSARY

QUESTION ONE (30 MARKS)

a)	Distinguish between the following:		
	i.	Ordinal and nominal scale	(4 marks)
	ii.	Population and sample	(2 marks)
	iii.	Systematic and stratified sampling	(4 marks)
	iv.	Data and variable	(2 marks)
b)	State t	he characteristics of a normal distribution curve	(4 marks)
c)	Explai	in four sources of empirical data in geographical studies	(4 marks)
d)	State t	he law of addition and multiplication in probability theory	(6 marks)
e)	Assess	s the role of statistics in geographic research	(4 marks)
QUES	STION	TWO (20 MARKS)	
a)	Define the terms		
	i.	Sampling frame	(2 marks)

ii.Confidence level(2 marks)b)Describe the characteristics of the measures of central tendency(6 marks)

c)	Explain the procedure of testing an hypotheses	(6 marks)
d)	Describe the use of any two statistical methods of organizing and presenting of	geographic
	data	(4 marks)

QUESTION THREE (20 MARKS)

a) Determine the range and standard deviation of the following data: 37, 37, 28, 33, 32, 30, 34

(8 marks)	
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b)	Assess the importance of calculating range and standard deviation	(6 marks)
c)	Use the above data to compute mean and mode	(4 marks)
d)	What is the usefulness of mean in data analysis?	(2 marks)

QUESTION FOUR (20 MARKS)

a) Assume that you are preparing to carry out a study on a topic of your own:

	i.	i. State two objectives of the study	
	ii.	State two hypotheses of the study	(2 marks)
b)	Desc	ribe the criterial for the selection of a statistical test	(6 marks)
c)	Expl	ain the concept of probability in geographical studies	(4 marks)
d)	Wha	t is the importance of using questionnaire as a method of data collection?	(6 marks)

QUESTION FIVE (20 MARKS)

a)	Usir	Using appropriate illustrations differentiate the following:		
	i.	Continuous and discrete data	(2 marks)	
	ii.	Descriptive statistics and inferential statistics	(2 marks)	
b)	Exp	Explain any three probability sampling techniques (
c)	Asse	ess the importance of sampling in geographic research	(7 marks)	