

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCE MANAGEMENT UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF ARTS IN SPATIAL PLANNING

1^{ST} YEAR 1^{ST} SEMESTER 2013/2014 ACADEMIC YEAR

REGULAR

COURSE CODE: EGE 3112

COURSE TITLE: MAP INTERPRETATION AND DESCRIPTIVE STATISTICS

EXAM VENUE: GIS LAB STREAM: Spatial Planning)

DATE: 23/04/14 EXAM SESSION: 2.00 – 4.00 PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer question 1 in section A and ANY other 2 questions in section B
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A

Q1. a) Explain the meaning of maps and enumerate two types of maps

[5 marks]

b) Illustrate the following using a sketch:

i) Index to adjoining sheets ii) Graphical Scale iii) Neatline and margins iv) Sheet name

v) Information on true, grid and magnetic north

[5 marks]

c) Describe the strengths and weaknesses of using the globe map

[5 marks]

d) Explain the meaning of conical map projection using a neat diagram

[5 marks]

e) Describe the characteristics of a good average

[5 marks]

f) From the following marks obtained by students of a class, calculate the arithmentic mean

Marks	No. Of students
0 -10	5
10-20	10
20-30	25
30-40	30
40-50	20
50-60	10

[5 marks]

SECTION B

Q2. a) When neither graphical nor numerical scale is provided on a map describe the methods one may use to establish the scale. [10 marks]

b) Discuss the factors, which control drainage density

[10 marks]

Q3. a) Discuss the representation of qualitative and quantitative point data on maps using neat diagrams [10 marks]

b) Given the data below, calculate the mean deviation from mean

x: 2, 4, 6, 8, 10, 12, 14, 16

f: 2, 2, 4, 5, 3, 2, 1, 1

[10 marks]

Q4. a) Describe the factors that determine establishing human settlementsb) Distinguish between descriptive statistics and inferential statistics[5 marks]

c) Explain the meaning of frequency polygon and describe how to construct one

[5 marks]

Q5. a) Use the provided data to compute the standard deviation

Ci	F
20 - 24	3
25 - 29	7
30 - 34	8
35 - 39	12
40 -44	9
45 - 49	6
50 - 54	4
55 - 59	1

[10 marks]

b) Use the data in Question 4 above to answer the following:

i)	Calculate the mean using an assumed mean	[3 marks]
ii)	Compute the median from the grouped data	[4 marks]
iii)	Calculate true mode	[3 marks]

END