JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

UNIVERSITY EXAMINATION FOR BACHELOR OF EDUCATION (ARTS)

YEAR 1 SEMESTER 1 2016/2017ACADEMIC YEAR

NAMBALE LEARNING CENTRE

COURSE CODE: NGE 102

COURSE TITLE: MAP INTERPRETATION AND DESCRIPTIVE STATISTICS

EXAM VENUE: STREAM

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

1. **Answer Question ONE (COMPULSORY) and ANY other 2 questions**
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.**

QUESTION ONE

Use the map provided to answer the following questions

(a) What is the area, in square kilometers, of part of the Forest shown on the map?

(5marks)

(b) What is the general type of relief found within:

i. Easter part of the map (1mk)

ii. Eastings 07 to 15 and Nothings 25 to 27? (1mk)

(c) Suggest the climate of the area shown on the map. Give two evidences on the map.

(3mks)

(d) State the stage of development of the part of River Yala shown on the map. Give two evidences derived from the map to support your answer. (3mks)

(e) What is the:

i. Approximate height of the hill in grid square 1024 and 1124? (1mk)

ii. Main reason for low population density to the north-eastern part of the area shown on the map. (1mk)

(f) Discuss five main economic potentials of the area giving evidence from the map

(10mks)

(g) Calculate the drainage density of the area to the north-east bounded by easting 18 and nothing 24. (5mks)

QUESTION TWO

(a) Using diagrams, explain the following maps:

i. Choropleth maps. (2mks)

ii. Dot maps. (2mks)

iii. Flow-line maps. (2mks)

(b) State the advantages and disadvantages of each of the four maps in (a) above. (6mks

(c) Explain four methods of depicting relief on a map (8mks)

Question Three

(a) Define the following terms:

i. Statistics (2mks)

ii. Variables (2mks)

(b) Explain the difference between:

i. A population and a sample (2mks)

ii. Data and information (2mks)

iii. Descriptive and inferential statistics (2mks)

iv. Qualitative and quantitative variables (2mks)

(c) Discuss the significance of statistical methods in geography (8mks)

Question Four

(a) Explain the following types of scale:

i. Nominal scale   (2mks)

ii. Interval scale   (2mks)

(b) Describe any three techniques used in sampling   (6mks)

(c) State the advantages of sampling   (4mks)

(d) Explain the following types of lettering in map making:

i. Point size   (2mks)

ii. Upright   (2mks)

iii. Italic   (2mks)

Question Five

The following table summarises information on a river basin in an area of a map representing 12square kilometers on the actual ground.

STREAM ORDER	NUMBER OF STREAMS	TOTAL LENGTH
1	38	40.6
2	16	19.8
3	7	10.2
4	2	6.5
5	2	3.1

(a) Calculate the Bifurcation ratio (Rb) for the 2nd, 3rd, 4th, and 5th order streams

(4mks)

(b) Calculate the mean length of each stream order.   (5mks)

(c) Determine the drainage density of the area.   (2mks)

(d) Draw the drainage basin showing stream order and number of streams as in the table above.   (9mks)