MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT
BACHELOR OF EDUCATION (ARTS) AND BACHELOR OF ARTS (GEOGRAPHY)

COURSE CODE: GEO 3122
COURSE TITLE : QUANTITATIVE METHODS IN GEOGRAPHY

DATE: FRIDAY 14ᵀᴴ DECEMBER 2018   TIME: 1430-1630HRS

INSTRUCTIONS TO CANDIDATES
Answer **ALL** questions in section **A** and any other **TWO** in section **B.**

This paper consists of 3 printed pages. Please turn over

QUANTITATIVE METHODS IN GEOGRAPHY **GEO 3122**

SECTION A (30 MARKS)

1. (a) Briefly, explain the functions of statistics in the contemporary society.

     (10 marks)

     (b) Describe the various classifications of statistical data.   **(10 marks)**

     (c) Explain the various types of scale of measurement stating their properties

     clearly   **(10 marks)**

SECTION B (40 MARKS) (ANSWER ANY 2 QUESTIONS)

2. (a) Describe three types of sampling.   **(10 marks)**

     (b) Given below are the number of tools produced by workers in a factory.

43	18	25	18	39	44	19	20	20	26
40	45	38	25	13	14	27	41	42	17
34	31	32	27	33	37	25	26	32	25
33	34	35	46	29	34	31	34	35	24
28	30	41	32	29	28	30	31	30	34
31	35	36	29	26	32	36	35	36	37
32	23	22	29	33	37	33	27	24	36
23	42	29	37	29	23	44	41	45	39
21	21	42	22	28	22	15	16	17	28
22	29	35	31	27	40	23	32	40	37

Construct frequency distribution with inclusive type of class interval. **(4 marks)**

Use it to find:

i. How many workers produced more than 38 tools? **(3 marks)**

ii. How many workers produced less than 23 tools? **(3 marks)**

3. (a) Discuss the concept of statistics according to Croxton and Cowden.

   (10 marks)

   (b) A sample of 50 students is to be drawn from a population consisting of 600 students belonging to two institutions A and B. The number of students in the institution A is 200 and the institution B is 400. How will you draw the sample using proportional allocation? **(10 marks)**

4. (a) Discuss the different types of geographical data. **(10 marks)**

   (b) Different types of data can be collected for different purposes. Discuss the validity of this statement in the light of quantitative methods. **(10 marks)**

5. Discuss the application of statistics in the following disciplines.
   a) Industry. **(4 marks)**
   b) Agriculture. **(4 marks)**
   c) Planning. **(4 marks)**
   d) Medicine. **(4 marks)**
   e) Modern applications. **(4 marks)**

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