



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
FOURTH YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM & NATURAL RESOURCES
MANAGEMENT
BACHEOR OF ARTS (GEOGRAPHY)**

COURSE CODE: GEO 414

**COURSE TITLE: DATA PROCESSING IN
GEOGRAPHY**

DATE: 18TH APRIL, 2018

TIME: 1100 - 1300HRS

INSTRUCTIONS TO CANDIDATES

- Answer question **ONE** and any other **THREE** questions.
- Use illustrations where appropriate,

This paper consists of 3 printed pages. Please turn over.

SECTION ONE (ANSWER ALL QUESTIONS)

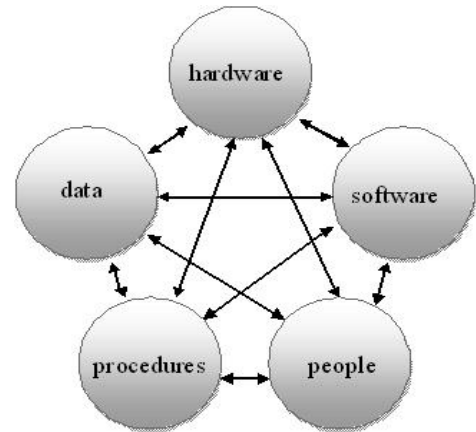
Q1

(a) Differentiate between data and information (2 marks)

(b) What is the role of an enumerator in a census? (4 marks)

(c) Describe two main points of the Claude Shannon (1948) information theory. (4 marks)

(e) The figure 1 above illustrates an Information system. Using this diagram to explain the main components of an Information system of typical secondary school library in Kenya. (5 marks)



(f) The table below is the result of a survey done on the ages of a suitable sample of county assembly members in Kenya. Study the data and answer the questions below.

Class intervals (months)	Frequency (tally marks)
3125- 3128	//
3129- 3132	//
3133- 3136	////
3137- 3140	////-////
3141-3144	////-//
3145-3148	////
3149-3152	////-////-/
3153-3156	////-////
3157-3160	////-////-////
3161-3164	////-////-////-///
3165-3168	////-////-////
3169-3172	////-////-/
3173-3176	////
3177-3180	////-///
3181-3184	///
3185-3188	//

- i. What was the sample size in this investigation? (2 marks)
- ii. Describe the data base from which the data may have been obtained (2 marks)
- iii. Outline two methods that may have been used to collect the data from the data base. (2 marks)
- iv. Obtain the standard deviation of the independent variable (2 marks)
- v. Using the graph paper provided construct a suitable chart to present these results. (2 marks)

[Total 25 marks]

SECTION TWO -ANSWER ONLY THREE QUESTIONS

Q2 Discuss the ethical challenges involved in using questionnaires as a data collection tool in academic research projects. (15 Marks)

Q3 “Using computers to collecting and analyzing meteorological satellite images to know what is happening all over the world instantaneously and uninterruptedly would produce information overload that could drain productivity.” Discuss. (15 marks)

Q4Examine five limitation of a specialized data processing system that could be used in processing general election results. (15 marks)

Q5 Discuss six desirable characteristics of good information in a commercial crop-farming situation. [15 marks]

Q6

(a)What is demographic data? (3 marks)

(b) Describe the work of six technical experts who are always involved in the development and maintenance of a data processing system (12 marks)
