



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2014/2015

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (HEALTH RECORDS AND INFORMATION MANAGEMENT)**

PHI 209: ANALYSIS AND INTERPRETATION OF DATA

DATE: TUESDAY 31ST MARCH 2015

TIME: 2.00 P.M. – 4.00 P.M.

INSTRUCTIONS

1. Write your student number on each answer sheet
2. Answer each question on a separate answer sheet

Section One (Answer ALL questions in Section One)

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| Q.1 | Distinguish between data and information | (4 marks) |
| Q.2 | Describe at least two (2) uses of data. | (4 marks) |
| Q.3 | State at least four (4) sources of data in a health institution. | (4 marks) |
| Q.4 | State at least four (4) methods of data collection. | (4 marks) |
| Q.5 | List at least four (4) aspects of good quality data. | (4 marks) |

Section Two (Answer question One and any two other questions in Section two)

- Q.1 The data below refer to patients attending Uzima Clinic in Kiambu County over a period of 5 days in January 2006. Following information refers to patient who attended Kisumu Provincial General Dental clinic over a period of 5 days in December 2011.

From the information provided

Interval	f
0-5	6
6-11	10
12-17	15
18-23	9
24-29	4

From the information provided:-

- a) Calculate to one decimal place:
- i) The arithmetic mean age
 - ii) The median age
 - iii) The mode of the ages by formula
- b) Construct mode by use of graph
- c) Interpret your results for (a) above (20 marks)
- Q.2 With examples, discuss how statistical data can be used in evidence decision making process. (15 marks)
- Q.3 Describe how data can be analyzed using chi-square test. (15 marks)
- Q.4 The following data are for patients who attended KNH dental clinic in period of 8 days:-

No of Patients	Frequency
501 - 510	11
511 – 520	21
521 – 530	20
531 - 540	40
541 – 550	46
551 – 560	21
561 - 570	16
571 - 580	5

From the data above:-

- i) Present data using a histogram
- ii) Present data using a polygon curve
- iii) Interpret the data (15 marks)

Q.5 Discuss at least four (4) reasons as to why we do analyze health care data with an example of the Indian fable (15 marks)