



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2012/2013

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR
THE DIPLOMA IN BUSINESS ADMINISTRATION
(CITY CAMPUS - DAY)

ADB 0104: BUSINESS STATISTICS

Date: 15th July, 2013

Time: 2.00 – 4.00 p.m.

INSTRUCTIONS

- ♦ Answer question ONE (COMPULSORY) (30 marks) and any other TWO questions (20 marks each).

Q1. A stock exchange marked recorded the following share prices (in Kshs) during a particular trading day.

32 40 58 42 63 80 17 27 41 73 47 08 33 49 37 22 45 53 61 77 38 24 45 61 52 65
11 82 51 66

- a) Find the range in the data (2 marks)
- b) Prepare a frequency table grouping the information starting 1 – 0, 11 – 20, 21 – 3 and so on (5 marks)
- c) State the modal and the media class (2 marks)
- d) Estimate the media and mean prices using the table in (b) above
- e) Draw a frequency polygon the data in (b) above (7 marks)
- f) Draw a histogram using the frequency table in (b) above (7marks)

- Q2. a) What is statistics (2 marks)
- b) Explain any four limitations of statistics (4 marks)
- c) Using relevant examples, explain the types and sources of statistical data. (4 marks)

d) Explain the meaning of the following as used in statistics.

- i. Population (2 marks)
- ii. Sample (2 marks)
- iii. An element (2 marks)
- iv. Variable (2 marks)
- v. Measure of location (2 marks)

Q3. a) Explain any five methods of collecting statistical data. (10 marks)

b) The table below shows the weekly wages of a number of workers at a small factory:

WAGES	75	85	95	105	115	125	135	145
	-84	94	104	114	124	134	144	154
FREQUENCY	2	3	7	11	10	8	4	1

Calculate the

- i) The mean wage (5 marks)
- ii) The standard deviation (5 marks)

Q4. a) Explain any four methods of recording statistical data (8 marks)

b) The table below shows the marks scored by 40 students in an interview

Marks	4	6	8	10	12	14	16	18	20
No. of student	1	4	6	x	7	6	3	2	1

- i) Determine the value of X (1 mark)
- ii) State the modal and the median mark (2 marks)
- iii) Draw a pie chart that represents the information indicating the angles representing each mark. (9 marks)