



MAASAI MARA UNIVERSITY

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

**SCHOOL OF BUSINESS MANAGEMENT &
ECONOMICS**

**DIPLOMA IN BUSINESS
MANAGEMENT**

**COURSE CODE: DBM 004
COURSE TITLE: QUANTITATIVE
TECHNIQUES**

DATE: 25TH APRIL, 2019
1300HRS

TIME: 1100 -

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other THREE Questions.

QUESTION ONE

- a. Explain the meaning of the term Quantitative Techniques. **(2marks)**
- b. State and explain three types of Quantitative Techniques. **(6marks)**
- c. Differentiate the following terms as used in Quantitative Techniques. **(6Marks)**
- i. Population and Sample.
 - ii. Census and Survey.
 - iii. Statistic and Parameter.
- d. Explain three shortcomings of quantitative techniques in decision making process. **(6Marks)**
- e. The data below illustrate the sales in thousands made by 10 companies whose names are provided in alphabets;

Company	Sales in Thousands ('000)
A	21
B	12
C	32
D	14
E	21
F	12
G	16
H	13
I	17
J	31

Used the table to determine

- i. The most frequent sales **(1Mark)**
- ii. The median sales **(2Marks)**
- iii. The average sales **(2Marks)**

QUESTION TWO

- a. Discuss the stages of statistical inquiry. **(10Marks)**
- b. Explain four ways in which statistical data can be classified. **(5Marks)**

QUESTION THREE

- a. State five reasons behind sample survey as opposed to complete enumeration. **(5Marks)**
- b. Explain five importances of Quantitative Techniques. **(10Marks)**

QUESTION FIVE

- a. State three characteristics of a binomial distribution. **(3Marks)**
- b. Give five characteristics of a normal distribution. **(5Marks)**
- c. What is the relationship between a Bernoulli and a Binomial distribution. **(2Marks)**
- d. State five uses of Index Numbers. **(5Marks)**

QUESTION FIVE

- a. The table below shows the distribution of the number of portfolios invested in by Mr. Kamau.

Number of Portfolios	Frequency
2	4
4	7
7	12
8	10
12	9
13	5
17	3

Use the table to determine

- i.** Median number of portfolios invested in by Mr. Kamau. **(3Marks)**
- ii.** The modal of portfolios invested in by Mr. Kamau. **(1Mark)**
- iii.** The mean of portfolios invested in by Mr. Kamau. **(5Marks)**
- iv.** Standard deviation of the number of portfolios invested in by him. **(6marks)**

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