



*"Investing in Africa's Future"*

**COLLEGE OF BUSINESS PEACE LEADERSHIP AND  
GOVERNANCE**

**MBA 503: QUANTITATIVE METHODS  
END OF SECOND SEMESTER EXAMINATIONS**

**APRIL/MAY 2018**

**LECTURER: (P TARAMBAWAMWE)**

**DURATION: (3 HRS)**

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***INSTRUCTIONS***

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Q1. Data can be presented in various ways. This include tables, graphs, statistics and mathematical models. Discuss two examples of each form of presentation and situations where you would use each of them. Give shortcomings of each method. [ 20 marks]

Q2 a. Explain the following terms. [8 marks]

- i. Parameter
- ii. Nominal level
- iii. Discrete data
- iv. Data

Q3 (a) Gen'a Private Limited has collected information on prices and the average number of Memory sticks per day for a random sample of 5 branches in the chain. The data is shown below.

<i>City</i>	<i>Memory sticks per day (Q)</i>	<i>Prices (P) in Dollars</i>
Harare	80	2
Bulawayo	64	3
Gweru	60	6
Mutare	60	7
Masvingo	54	8

If  $R^2 = 0.774$  and  $P = 19.917 - 2.31Q$

- i. Represent the regression equation on a graph and interpret both the regression coefficients and the correlation coefficient. [7]
- ii. What assumptions are you making in your interpretations? [5 marks]

Q4.a. Explain what a hypothesis is. [5 marks].

- b. Discuss the two types of hypotheses [5 marks].
- c. Discuss the two types of errors in hypothesis testing. [5 marks].
- d. What are the major sources of errors in hypothesis testing and how can these be minimized? [5 marks].

END OF PAPER