



PAN AFRICA CHRISTIAN UNIVERSITY

SCHOOL OF LEADERSHIP, BUSINESS AND TECHNOLOGY

**END OF TRIMESTER EXAMINATION FOR DIPLOMA IN LEADERSHIP AND
MANAGEMENT**

APRIL 2025 EXAMINATIONS

CAMPUS: ROYSAMBU

DEPARTMENT: LEADERSHIP

COURSE CODE: DLM102

COURSE TITLE: INTRODUCTION TO QUANTITATIVE METHODS

EXAM DATE:

TIME: 3 HOURS

INSTRUCTIONS

- This exam script has **TWO (2)** sections.
- Read all questions carefully before attempting.
- Answer **ALL** questions in Section A and any other **TWO** questions in Section B.

Final Exam (Total marks 40)

Section A: Answer All questions in this section

Q (1)

1. (a) Define the following terms as they are used in Quantitative Methods:-

(i) Operational Research (2 marks)

(ii) Statistics (2 marks)

(iii) Variable (2 marks)

b) State and explain two features of Operational Research (4 marks)

2 (a) Identify and explain three reasons why leaders use Quantitative Methods in organizations (6 marks)

(b) List and explain two functions of statistics in organizations (4 marks)

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION.

3.

a) State 5 characteristic of a scientific research (5marks)

b) Describe one instance when you can use a questionnaire as a data collection tool as opposed to other forms (2 marks)

c) Name THREE sampling techniques that could be used in research? (3marks)

4. Identify and explain FIVE methods that leaders can use for data collection while conducting Operational Research (10 marks)

5. (a) While giving examples, explain the concepts of Mode and Median as they are used in Quantitative Methods (4 marks)

(b) The following table shows the marks for Quantitative Methods unit that two students (Mary and Joel) scored for different assignments during the January-April 2024 Trimester.

Name of Student	DQ1	DQ2	DQ3	DQ4	DQ5	CAT	Essay	Exam
Mary	3	4	3	5	2	5	4	5
Joel	4	5	4	4	3	3	4	3

Calculate the Mean, Mode, and Median for each student (6 marks)

6. a) Identify and explain TWO differences between primary and secondary data (4 marks)

b) State and explain THREE sources where a business person can collect secondary data from (6 marks)

7. While giving examples from a business setting: -

i) explain the meaning of a correlation of $R=0.342$ and a regression of $R^2=0.019$ between customer satisfaction and business performance (6 marks)

ii) What two business decisions can be drawn from the findings presented in (i) above? (4 marks)

END