



PAN AFRICA CHRISTIAN UNIVERSITY
DIPLOMA IN LEADERSHIP AND MANAGEMENT
END OF TERM EXAMINATION

DEPARTMENT: LEADERSHIP

COURSE CODE: DLM 204

COURSE TITLE: QUANTITATIVE METHODS

EXAM DATE: JUL Y 2022

TIME:

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

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 (4 marks)

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

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION

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

4 (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 May-September 2022 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 Range for each student (6 marks)

5. Name and explain five methods that leaders can use to sample a population to be used in a study (10 marks)

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

b) State and explain three sources of secondary data (6 marks)

7. Name and explain five steps that are followed by leaders when conducting Operational Research in organizations (10 marks)

END