



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA
FACULTY OF MANAGEMENT SCIENCES
2025_2 EXAMINATIONS

COURSE CODE: MBA816 **CREDIT UNIT: 3**

COURSE TITLE: Quantitative Methods for Management

TIME ALLOWED: 2½Hrs

INSTRUCTION:

- 1. Attempt question number one (1) and any other (3) questions.**
- 2. Question number 1 carries 25 marks, while the other three (3) questions carry 15 marks each.**
- 3. Present all your points in coherent and orderly manner.**

1a. Given the data group into a frequency distribution below

Monthly Rentals of Halls	No. of units
1-99	3
100-299	7
300-399	11
400-499	22
500-599	49
600-699	24
700-799	9
800-899	4
	120

What is the mean monthly rental for the group data? **10Marks**

b. Discuss five fundamental techniques employed in statistical sampling **10marks**

c. Clarify the fundamental ideas behind descriptive and inferential statistics. **5marks each**

2a. The following information shows the contribution of a family in the upkeep of their school child in the first and second term at school. **10marks**

Contributions to a student pocket money

Contributors	1 st Term (N)	2 nd Term (N)
Father	15	25
Mother	20	20
Friends	10	5
Total	45	50

Present the information on a pie chart.

b. Simplify $3\sqrt{50} - 5\sqrt{32} + 4\sqrt{8}$ **5marks**

3a. Discuss five fields where statistics are applied? **10marks**

b. Jelfad Company pays its sales people either N6.50k, N7.50K or N8.50k. The corresponding weight is 14, 10 and 2 respectively. Determine the weighted mean? **5marks**

4a. Write short note on inductive, deductive, and correlational statistics **5marks**

b. The following are the performances of some contractors of some projects completion: **10marks**

Contractor X's performance: 82%, 57%, 74%, 40%, 52%, 51%.

Contractor Y's performance: 71%, 34%, 50%, 81%, 62%, 54%.

Calculate the rank correlation

5a. Explain the concepts of correlation coefficient r **5marks**

b. Identify three reasons for using samples in place of census? **10marks**