



# NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

## FACULTY OF EDUCATION

2025\_1 EXAMINATION

COURSE CODE EDU723

COURSE TITLE BASIC RESEARCH METHODS IN EDUCATION

CREDIT UNIT 2

TIME ALLOWED; 2 HOURS

INSTRUCTION: Answer Question 1 and any other 2

**Note: Question 1 carries 30marks while others carry 20marks each**

### QUESTION 1

The table below is a composite table showing the distribution of scores for your class in an examination.

SN	Class interval	Real Exact Limit	Mid Point	Frequency	Cumulative Frequency
1	55 -- 59			1	
2	50 -- 54			3	
3	45 -- 49			5	
4	40 -- 44			6	
5	35 -- 39			8	
6	30 -- 34			12	
7	25 -- 29			10	
8	20 -- 24			6	
9	15 -- 19			3	
10	10 -- 14			2	

Complete the table by filling the real exact limit, mid point and cumulative frequencies.  
( 30 marks)

### QUESTION 2

- What is a research report?
- Describe the components of chapter one- INTRODUCTION- of the research report to your friend who is about to write his report.

### QUESTION 3

- a) What do you understand by the following terms in research?
  - i. Sequencing. ii. Mean. iii. Median. iv. Mode. v. Range
- b) Use TWO examples to illustrate your knowledge of the terms in (a) above.

### QUESTION 4

- a) How do you explain the concept of Literature Review?
- b) Explain the FOUR scientific attitudes you should apply in your research process.
- c) Describe the FOUR ethical issues you should avoid in the conduct of your research studies.

### QUESTION 5

In a typical pre- test—post- test control group experimental design given as

R E O<sub>1</sub> X O<sub>2</sub>

R C O<sub>1</sub> ... O<sub>2</sub>

- i. What do these letters stand for?
- ii. What type of statistical tests can be used for data analysis here?
- iii. Describe this design to your student in research.