

**BACHELOR OF EARLY CHILDHOOD EDUCATION (HONOURS)**

**COURSE : INTRODUCTION TO RESEARCH
METHODOLOGY IN EDUCATION**

COURSE CODE : ECD3043

DURATION : 3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. This question paper consists of **THREE (3)** parts: PART A (15 questions)
PART B (4 questions)
PART C (2 questions)
2. Answer **ALL** questions from PART A, PART B and PART C.
 - i. Answer PART A in the Objective Answer Sheet
 - ii. Answer PART B and C in the Answer Booklet provided.
3. Please check to make sure that this examination pack consists of:
 - i. The Question Paper
 - ii. An Answer Booklet
 - iii. An Objective Answer Sheet
4. Do not bring any material into the examination hall.
5. Please write your answer using permanent ink.

MYKAD/

PASSPORT NO : _____

ID. NO. : _____

LECTURER : _____

SECTION : _____

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO

This question paper consists of 7 printed pages including the front page

PART A: MULTIPLE CHOICE**Answer ALL questions.**

1. Which statement best defines educational research?
 - A. A school policy
 - B. A teaching strategy
 - C. A classroom activity
 - D. A systematic inquiry to solve educational issues

2. The first step in conducting a research study is _____.
 - A. collecting data
 - B. analysing findings
 - C. reviewing literature
 - D. identifying a research problem

3. Which type of research uses numerical data and statistical analysis?
 - A. Narrative
 - B. Qualitative
 - C. Case study
 - D. Quantitative

4. A research objective should be _____.
 - A. opinion-based
 - B. general and unclear
 - C. specific and measurable
 - D. written after data collection

5. Which of the following is a secondary data source?
 - A. Interview transcript
 - B. Observation record
 - C. Research journal article
 - D. Questionnaire response

6. A variable that is manipulated by the researcher is called _____ .
- A. dependent variable
 - B. intervening variable
 - C. extraneous variable
 - D. independent variable
7. The main purpose of a conceptual framework is to _____ .
- A. analyse data
 - B. select samples
 - C. write conclusions
 - D. show relationships between variables
8. Which sampling method gives every member an equal chance of selection?
- A. Snowball sampling
 - B. Purposive sampling
 - C. Convenience sampling
 - D. Simple random sampling
9. Which instrument is MOST suitable to study children's behaviour naturally?
- A. Written test
 - B. Questionnaire
 - C. Structured interview
 - D. Observation checklist
10. An informed consent form ensures that participants _____ .
- A. are paid
 - B. must participate
 - C. remain anonymous only
 - D. know the purpose and risks of the study

11. Which term refers to the trustworthiness of qualitative research?
- A. Validity
 - B. Reliability
 - C. Credibility
 - D. Generalisability
12. Reliability of an instrument means _____.
- A. it is easy to administer
 - B. it is qualitative in nature
 - C. it gives consistent results over time
 - D. it measures what it should measure
13. Which research design focuses on solving immediate classroom problems?
- A. Action research
 - B. Survey research
 - C. Correlational research
 - D. Experimental research
14. Pilot testing of instruments is conducted to _____.
- A. write objectives
 - B. collect data early
 - C. reduce sample size
 - D. improve clarity and reliability
15. Data analysis in qualitative research often involves _____.
- A. graph plotting
 - B. statistical testing
 - C. numerical comparison
 - D. coding and theme development

(TOTAL: 15 MARKS)

PART B: STRUCTURED QUESTIONS

Answer **ALL** questions.

QUESTION 1

Provide the definitions for the following terms.

- a. Research design (2 marks)
- b. Population (2 marks)
- c. Sample (2 marks)
- d. Data collection (2 marks)
- e. Research ethics (2 marks)

(Total: 10 marks)

QUESTION 2

- a. Discuss **TWO (2)** differences between basic research and applied research. (4 marks)
- b. Explain **THREE (3)** differences between quantitative and qualitative research. (6 marks)
- c. List **THREE (3)** research designs in quantitative research. (3 marks)
- d. List **TWO (2)** research designs in qualitative research. (2 marks)

(Total: 15 marks)

QUESTION 3

A teacher is conducting a research on "The effect of outdoor in improving communication skills among preschool students in Tadika ABC".

- a. Explain the independent variable of the above research. (2 marks)
- b. Explain the dependent variable of the above research. (2 marks)
- c. Describe the research setting of the above research. (2 marks)
- d. List **ONE (1)** research objective and **ONE (1)** research question for the above research. (4 marks)

(Total: 10 marks)

QUESTION 4

- a. Define literature review (2 marks)
- b. Explain **TWO (2)** primary functions of literature review in a research study (4 marks)
- c. Discuss **TWO (2)** challenges that researchers may face when conducting a literature review (4 marks)

(Total: 10 marks)

(TOTAL: 45 MARKS)

PART C: ESSAY QUESTIONS

Answer All question.

QUESTION 1

Ethical considerations are fundamental in educational research.

Discuss and give example of **FOUR (4) ethical principles** that researchers must follow when conducting research involving children or students.

(20 marks)

QUESTION 2

You are required to conduct a research on "The correlation of parents educational background and communication skills among preschool students in Tadika ABC".

Create **TWO (2)** research objectives, **TWO (2)** research questions, **TWO (2)** pairs of research hypothesis, and **TWO (2)** significances of study from the above research.

(20 marks)

(TOTAL: 40 MARKS)

(TOTAL: 100 MARKS)

END OF QUESTION PAPER

