

**FINAL EXAMINATION****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

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PART A: MULTIPLE CHOICE

Answer ALL questions.

1. The main purpose of educational research is to _____.
 - A. Prove theories only
 - B. Criticise education systems
 - C. Replace teaching experience
 - D. Solve educational problems and improve practice

2. Which of the following best describes research methodology?
 - A. A list of research findings
 - B. A collection of journal articles
 - C. Tools used to analyse data only
 - D. A systematic approach to conducting research

3. Which research approach focuses on numerical data and statistical analysis?
 - A. Action research
 - B. Qualitative research
 - C. Case study research
 - D. Quantitative research

4. A research problem should be _____.
 - A. vague and broad
 - B. based on assumptions only
 - C. copied from previous studies
 - D. clearly defined and researchable

5. Which of the following is an example of a qualitative data collection method?
 - A. Interview
 - B. Standardized test
 - C. Achievement score
 - D. Questionnaire with Likert scale

6. A hypothesis is _____.
- A. a proven fact
 - B. a research instrument
 - C. a data analysis method
 - D. a tentative answer to a research problem
7. Which section of a research proposal explains why the study is important?
- A. Findings
 - B. Methodology
 - C. Literature Review
 - D. Significance of the Study
8. Sampling refers to _____.
- A. analysing data
 - B. testing hypotheses
 - C. writing a research report
 - D. selecting participants from a population
9. Which of the following is a probability sampling technique?
- A. Snowball sampling
 - B. Purposive sampling
 - C. Convenience sampling
 - D. Simple random sampling
10. Ethical consideration in educational research includes _____.
- A. manipulating data
 - B. ignoring consent forms
 - C. forcing participants to respond
 - D. protecting participants' confidentiality

11. Validity in research refers to _____.
- A. consistency of results
 - B. type of research design
 - C. accuracy of measurement
 - D. size of the research sample
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 exploring the relationship between two or more variables?
- A. Survey research
 - B. Action research
 - C. Correlational research
 - D. Experimental research
14. The literature review helps researchers to _____.
- A. analyse statistics
 - B. collect primary data
 - C. avoid plagiarism only
 - D. identify research gaps
15. Which of the following is the final stage of the research process?
- A. Data collection
 - B. Reviewing literature
 - C. Identifying the problem
 - D. Writing the research report

(Total: 15 Marks)

PART B: STRUCTURED QUESTIONS

Answer ALL questions.

QUESTION 1

Research provides the necessary information to guide decision and successfully address the problems, and aids decision-making by providing clear data analysis to managers about the underlying problem, associated factors, and potential solution.

- a. Define what is research?
(2 marks)
- b. Explain **TWO (2)** reasons why research is important?
(4 marks)
- c. Explain **TWO (2)** types of research variables.
(4 marks)

(Total: 10 marks)

QUESTION 2

- a. List **THREE (3)** research approaches can be used in educational setting.
(3 marks)
- b. Explain **TWO (3)** types of research designs used in quantitative research approaches.
(6 marks)
- c. State **TWO (2)** types of research designs used in qualitative research approaches.
(6 marks)

(Total: 15 marks)

QUESTION 3

A teacher is conducting a research on "The effect of cooperative play in improving social 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 research instrument.
(2 marks)
- b. Discuss **FOUR (4)** types of research instrument can be used to collect the data.
(8 marks)

(Total: 10 marks)

(TOTAL: 45 MARKS)

PART C: ESSAY QUESTIONS

Answer All question.

QUESTION 1

You are required to conduct a research on "The effect of digital storytelling in improving listening 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)

QUESTION 2

Discuss **FOUR (4)** differences of quantitative and qualitative approaches in educational research.

(20 marks)

(TOTAL: 40 MARKS)

(TOTAL: 100 MARKS)

END OF QUESTION PAPER

