



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND
CONTINUING PROFESSIONAL DEVELOPMENT
(ITECPD)



END-OF-FIRST-SEMESTER EXAMINATIONS. JUNE, 2023

LEVEL 200

COURSE CODE: EGM 236

COURSE TITLE: THEORIES IN THE LEARNING OF NUMERACY IN THE EARLY
GRADE

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- *The Section is made up of six essay type questions.*
- *Answer any FOUR questions in your answer booklet.*
- *Each question carries equal marks. You are expected to start each question on a new page.*
- *You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.*

Instruction: Answer any four (4) questions in the answer booklet provided.

1. a. List **three (3)** basic numeracy concepts that can be introduced to early grade learner by incorporating them into simple everyday activity. **(3 marks)**
b. As a numeracy teacher, how would you interpret the following concepts:
 - i. Beliefs **(2 marks)**
 - ii. Attitudes **(2 marks)**
 - iii. Values **(2 marks)**c. Explain **four (4)** values of studying early grade numeracy in our societies. **(12 marks)**
2. a. Which of these **four (4)** points uniquely identifies the following developmental stages in the diagram below? **(8 marks)**
 - 1) Child learns to add, subtract, multiply and divide
 - 2) Child begins to think logically
 - 3) Manipulations of objects in the environment
 - 4) Child begins to acquire vocabulary

Developmental stages	Points
Formal operational stage	
Sensorimotor stage	
Preoperational stage	
Concrete operational stage	

- b. List any **five (5)** and explain **four (4)** implications of the multiple intelligence theory to teaching and learning of numeracy at the basic school level. **(17 marks)**
3. a. State **four (4)** elements of emotional intelligence. **(8 marks)**
 b. Explain **four (4)** major factors that may affect the teaching and learning of numeracy at the early grade. **(12 marks)**
 c. State **five (5)** cognitive learning strategies that teachers should adopt to help build learners' cognitive skills to facilitate teaching and learning process. **(5 marks)**
4. a. Explain **five (5)** benefits of teacher beliefs in the teaching and learning of early grade numeracy. **(15 marks)**
 b. Describe **five (5)** major ways children learn numeracy at the early grade. **(10 marks)**
5. a. What is scaffolding in teaching and learning? **(3 marks)**
 b. Identify and explain four ways numeracy contribute to the child's intellectual development. **(12 marks)**
 c. Explain **five (5)** benefits of knowing how children learn numeracy to enhance early grade teacher's teaching. **(10 marks)**
6. a. What are core competencies in the new numeracy curriculum? **(2 marks)**
 b. State **three (3)** core competencies as outlined in the new numeracy curriculum. **(3 marks)**
 c. The new numeracy curriculum is organised under key headings and annotations for the purpose of easy referencing. Explain any **five (5)** key headings and annotations. **(20 marks)**

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