



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



END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024

LEVEL: 200

COURSE CODE: EGM 245

COURSE TITLE: TEACHING AND ASSESSING NUMERACY 1 FOR EARLY  
GRADE

TIME ALLOWED: 2 HOURS

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS.

- This paper is made up of ONE SECTION.
- The Section is made up of five essay type questions.
- Answer any THREE 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 three (3) questions in the answer booklet provided.

1. a. Explain the difference between a standard and objective-based curriculum. [8 Marks]
- b.i Write the number 672 in expanded form to show the value of each digit [5 Marks]
- ii. As a teacher, outline **three (3)** ways of ensuring that technology enhances learning rather than distracting learners from the main numeracy objectives [7 Marks]

2. a. i. Explain the 'counting down' strategy in subtraction. [6 Marks]
- ii. Outline how the method in (i) can be used to solve the problem  $12 - 3$  [6 Marks]
- b. Kofi was saving his favorite chocolate bar for a special treat. He had already eaten a little bit, so  $\frac{7}{8}$  of the bar was left. One afternoon, Kofi decided to enjoy a bit more and ate  $\frac{1}{4}$  of what he had left. After his snack, Kofi wondered how much of the chocolate bar was still left for later. How much of the chocolate bar does Kofi have left now? [8 Marks]
- 3 Explain the difference between the terms "length," "area," and "volume." Give an example of how each is measured in everyday life [10 Marks]
- b. Alberta has a rectangular bedsheet that measures 120 inches in length and 95 inches in breadth. If she wants to sew lace around the entire edge of the bedsheet, how much lace will be needed to cover the complete perimeter of the sheet? [10 Marks]
- 4 a. What is an assessment tool [4 Marks]
- b. As an Early Grade teacher, explain how you would use the following assessment tools in your mathematics classroom:
- i. Student portfolios [8 Marks]
- ii. Feedback and reflection [8 Marks]
5. a. Write down the four components of skills of introducing a micro lesson [8 Marks]
- b. Explain the difference between comparing and ordering whole numbers as a mathematical concept. [8 Marks]
- c. Why is it important for children to master both forward and backward counting? [4 Marks]



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