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

END OF FIRST SEMESTER EXAMINATIONS, APRIL, 2024

LEVEL 300
COURSE CODE: PBM 352

COURSE TITLE: TEACHING AND ASSESSING UPPER PRIMARY MATHEMATICS

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 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) Define the concepts below and show how there are related to each other:

   i. Assessment

   ii. Evaluation **5 Marks**

   b) List and explain the three purposes of assessment. **6 Marks**

   c) Show step by step how you would guide Basic 5 pupils to arrange the following fractions in ascending order using concrete materials: $\frac{2}{3}, \frac{5}{6}$ and $\frac{3}{4}$. **9 Marks**

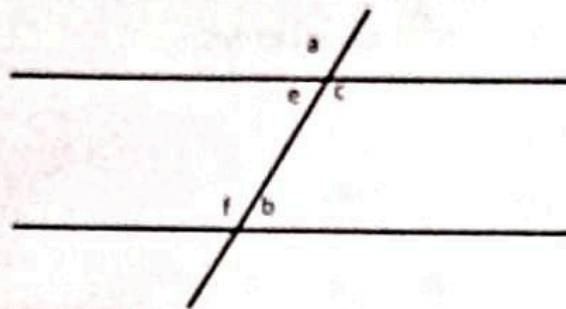2. a) Explain the following concepts and provide an example for each:

i. Cardinal number.

ii. Ordinal number.

iii. Place value. **(6 Marks)**

b) Prepare a template for a lesson indicating all appropriate fills. **(10 Marks)**

c) Distinguish between Standard Based Curriculum and Objective Based Curriculum. **(4 Marks)**

3. a) From the figure below, you are to identify two types of angles and support each type with an attribute. **(6 Marks)**

b) Demonstrate how you would guide a basic four learner to comprehend the relationship between angle *a* and *c*. **(8 Marks)**

c) Find the Highest common factor of 16 and 24.

4. A basic 4 leaner refers to the shaded portion of the figure below as half.

a) Is there anything wrong with the learner's response? **(2 Marks)**

b) Justify your response to **4a**. (3 Marks)

c) Demonstrate how you will guide a basic 4 learner to multiple $\frac{1}{2}$ by $\frac{1}{4}$ using hands on activity. (9 Marks)

d) List and explain two principles of assessment. (6 Marks)

5. a) A colleague of yours vowed never to prepare a lesson plan before teaching. Describe three points you would use to encourage him to change his/her philosophy. (9 Marks)

b) Describe how you will guide a basic 4 learners to convert 0.0384 into 1 significant figure (6 Marks)

c) Explain the term place value. Hence, write the place value of the digits 7 and 2 in 7.812301. (5 marks)