



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



END-OF-FIRST-SEMESTER EXAMINATIONS. AUGUST, 2023  
LEVEL 300

COURSE CODE: PBM 351

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) Explain with an example the term 'Highest Common Factor' to Basic 4 pupils. (3marks)  
(b) Describe how you would guide Basic 4 pupils to find the Highest Common Factor of 24 and 36. (17marks)
2. (a) Explain the term place value. Hence, write the place value of the digits 8 and 3 in 7.080230. (6 marks)  
(b) Show step by step how you would introduce your pupils to the concept of triangular numbers, using a named concrete material. (12 marks)  
(c) Explain two (2) importance of remediation in assessment. (2 marks)

3. (a) Explain with an example the term equivalent fraction.

(4 marks)

(b) Show step by step how you would guide Basic 5 pupils to arrange the following fractions in ascending order using concrete material:

$$\frac{2}{3}, \frac{5}{6} \text{ and } \frac{1}{2}.$$

(16 marks)

4. The data below shows the marks scored by Basic 6 pupils in a class test:

40	29	26	14	35	16
21	24	31	23	27	49
38	34	12	25	55	16

(a) Explain how you would guide Basic 6 pupils to represent the data using stem and leaf plot.

(16 marks)

(b) Describe how you would guide pupils to use the stem and leaf plot in 4 (a) to find the mean and modal score.

(4 marks)

5. (a) List **three (3)** benefits of writing lesson plan to a professional mathematics teacher.

(3 marks)

(b) Prepare 35 minutes lesson plan which would be used to teach basic four pupils how to find the Perimeter of a rectangle.

(17 marks)

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