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

END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024

LEVEL 200
COURSE CODE: PBM241
COURSE TITLE: TEACHING AND ASSESSING MATHEMATICS IN THE
UPPER PRIMARY (INTRODUCTORY)

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

➡ VISIT: COLEMANPUBLICATION·COM FOR MORE

1. a. Explain each of the following phrases use in assessment of mathematics
        lesson

        i.   assessment for learning
        ii. assessment of learning
        iii. assessment as learning   (6 Marks)

    b. List out the steps in a practical activity in class that you would use to teach
        pupils the difference between the following number concepts; cardinal
        number, ordinal number and nominal number. (12 marks)

    c. write down the number, 304,002 in words   (2 marks)

2. a. (i). Write down the transpose of 765   (2 marks)

        (ii). Illustrate how you would teach sum of 765 and its transposes using the
        lattice strategy of addition   (10 Marks)

b. State four differences between the objective based curriculum and the standard based curriculum. **(8 Marks)**

3. **a.** What is Micro – Lesson plan **(3 marks)**

   b. Explain **four (4)** importance of lesson plan **(9 marks)**

   c. Describe how you would use named real objects to assist your pupils to list out the differences and similarities between a cuboid and a cube. **(8 Marks)**

4. **a.** There are 13,345 animals on a farm. 2,478 of them are goats, 4,123 are sheep, and 3,091 are pigs, while the rest are cows. Describe how you would guide your learners to find the number of cows on the farm? **(8 marks)**

   b. State and explain **four (4)** reasons for assessing pupils in mathematics education at the primary level. **(12 marks)**

5. **a.** State the four steps of Polya's principles of problem solving **(4 Marks)**

   b. A registered Uber car meant to carry five passengers including the driver, is used to convey forty learners to a neighboring institution for a program. How many trips would the driver make to be able to carry all of them? As a teacher describe how you would assist your basic six learners to solve this problem. **(8marks)**

   c. Distinguish between indirect and indirect comparison of length and give an example each **(8marks)**