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

END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024

LEVEL: 300
COURSE CODE: PBM361
COURSE TITLE: TEACHING AND ASSESSING MATHEMATICS FOR UPPER PRIMARY
TIME ALLOWED: 2 HOURS

STUDENT'S INDEX NUMBER:

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. Using the values below, describe how you will help BS6 pupils to draw a stem and leaf plot for the data **(15 Marks)**

19	18	19	20	16	11	12	20	14	11
13	10	11	11	15	11	13	11	20	15
11	11	15	20	13	10	12	12	14	15

b. Briefly explain how Micro teaching works? **(5 Marks)**

2. Write a 30 minute lesson plan how the topic "The Area of a right-angled triangle" for BS6 pupils. **(20 Marks)**

3. a. What is meant by the line of symmetry of a plane figure? **(4 Marks)**

   b. How many lines of symmetry is the following plane figures having?

      i. Scalene triangle **(2 Marks)**

      ii. Regular hexagon **(2 Marks)**

      iii. Irregular pentagon **(2 Marks)**

   c. State **there (3)** properties each of the following shapes **(9 Marks)**

      i. Equilateral triangle

      ii. isosceles triangle

      iii. trapezium

4. a. Describe using the appropriate teaching/learning aids to BS5 pupil that the some of the interior angles of an irregular quadrilateral is 360°. **(10 Marks)**

   b. By the use of lattice multiplication, how would you guide a BS6 learner to find the product 76×18? **(10 Marks)**

5. a. Describe how you will guide your pupils to measure the difference in the volume of two irregular – shaped stones? **(10 Marks)**

   b. Describe how you will guide your pupils to measure the circumference of the circular base of a milk tin. **(10 Marks)**