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

END OF FIRST SEMESTER EXAMINATIONS, APRIL, 2024

LEVEL 300
COURSE CODE: JBM 351
COURSE TITLE: TEACHING AND ASSESSING JHS MATHEMATICS

TIME ALLOWED: 2 HRS

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.*

Q 1. (a) Describe how you would assist a JHS2 learner to realize for themselves that the area of a circle A is given by $A = \pi r^2$, where r is the radius of the circle.

(b) You are given a 3 sided, 4 sided, 5 side etc polygons. Show how you would carry out an investigation to find the sum of exterior angles

Q2. (a) Give **two** reasons why a pre-service teacher should be engaged in a micro lesson.

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(b) Explain **two** reasons why a Mathematics teacher should assess his/her learners.

(c) Write down **four** reasons why a Mathematics teacher should prepare a lesson plan.

(d) Write down a story problem depicting: $3 \div \frac{1}{4}$

Q3. Show step by step with explanation, how you would guide a JHS learners to:

(a) measure the angle marked y in the diagram below using a protractor;

(b) copy $\angle ABC$.
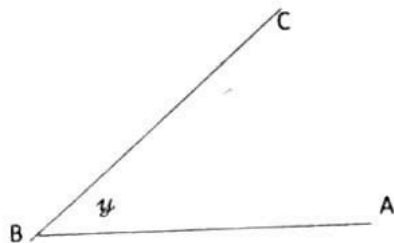
Q4. (a) Describe how you would help a Basic 8 learner construct a triangle ABC such that $|AB| = 5$ cm, $|BC| = 6$cm and $|AC| = 7$cm.

(b) Briefly show how you would guide the learner to construct a perpendicular from the vertex A to the side $|BC|$.

Q5. (a) Describe how you would guide a JHS 1 learner to:

organize the following test scores of 24 pupils in a frequency table;

24	24	22	25	24	23	24	24
20	23	20	24	23	22	23	25
24	19	23	22	24	23	19	20

(b) represent the data on a bar chart.