



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



END-OF-SECOND-SEMESTER EXAMINATIONS. JAN., 2023

LEVEL 300

COURSE CODE: JBM 361

COURSE TITLE: TEACHING AND ASSESSING JUNIOR HIGH SCHOOL
MATHEMATICS (ADVANCED)

TIME ALLOWED: 50 MINUTES

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- Section B is made up of four essay type questions.
- Answer TWO questions into your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to handover your answer booklet to the invigilator before you leave the examination hall.

SECTION B

1. Describe in details how you will show your learners that the volume of a cone of radius r , and height h , is $\frac{1}{3}\pi r^2 h$.
2. A mason hired a casual worker to fill a cubic rubber tank of length 1.2m with water. The worker used a container of volume 54 litres. If the mason agreed to pay GH¢1.75 for a container of water fetched, calculate;
 - (i) in litres, the volume of the tank.
 - (ii) the number of containers of water that can fill the tank.
 - (iii) the amount of money paid the labourer to fill the tank with water
3. Explain the mathematical term 'rotational symmetry'. Use a suitable example to illustrate rotational symmetry to a Junior High School Basic 9 class.
4. A teacher conducted a class test for a class and recorded the marks as below;