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

END OF FIRST SEMESTER EXAMINATIONS, APRIL, 2024

LEVEL 200
COURSE CODE: JBM 231
COURSE TITLE: THEORIES IN THE LEARNING OF MATHEMATIC IN JHS

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 any **four (4)** characteristics of students with learning difficulties in mathematics.   **16marks**

(b) Mention any **four (4)** roles of the mathematics teacher in helping students with learning difficulties in mathematics.   **4marks**

2. (a) What is meant by multiple intelligences?   **4marks**

(b) Mention and explain any four multiple intelligences as stated by Howard Gardner.

                                                                                       16mark

3. A parent seem not to see why every child of school going age should made to learn mathematics. How do you convince him/her with **five (5)** reasons to appreciate the rationale for teaching and learning mathematics in our schools? **20marks**

4. (a) Explain the sequence of instructional phases suggested by Jerome Bruner for teaching and learning mathematics. Illustrate each phase with an example in mathematics. **12marks**

(b) Explain **two (2)** difficulties children with dyslexia may have in learning mathematics. **8marks**

5. (a) Explain what is meant by effective mathematics teaching, indicating clearly its main features and the nature of the classroom environment where it thrives. **10 Marks**

(b) Mention and explain any **five (5)** factors that affect teaching and learning mathematics. **10marks**

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