

## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja

**Department of Science Eduaction, Faculty of Education** 

POP EXAMINATION

2024\_2 EXAMINATION\_

Programme:	MEd
Course Code:	EDU 808
<b>Course Title:</b>	Mathematics Curriculum and Instructions in Secondary Schools
Credit Unit:	2 Units
Time Allowed:	2 Hours
Instruction:	Answer Three (3) Questions: Question One (1) is
	Compulsory and any other Two (2).

1a. Define the following terms: (i) Mathematics (ii) Dynamic Assessmen (4 marks)
1b. Identify and explain four (4) determinants in curriculum planning process. (10 marks)

1c. List two (2) elements of a Unit Plan (2 marks)

1d. Differentiate between General Backwardness and Particular Backwardness (4 marks)

1e. Discuss five (5) reasons to justify the need for mathematics teachers to draw up a scheme of work. (10 marks)

2a. State and explain five (4) types of mental operation as propounded by Guilford.
 (8 marks)

2b. Briefly explain any three of the following mathematical problems and offer solutions to them

• Pedagogical Problems (4 marks)

- Teaching Aids (4 marks)
- Classroom Organization (4 marks)
- Teacher's Competence (4 marks) (Any three, Total = 12 marks)

3a. Evaluate the implications of Piaget's theory for mathematics instruction with special reference to Stage Independent Theory and Stage Dependent Theory (E) (8 marks)

3b. Write short notes on the following terms:

- Cognitive Domain
- Affective Domain
- Psychomotor Domain (12 marks)
- 4a. Discuss four (4) problems and solutions of teaching and learning of mathematics in Nigeria. (16 marks)

4b. State two (2) advantages and two (2 disadvantages of guided discovery lesson. (4 marks)