



NATIONAL OPEN UNIVERSITY OF NIGERIA

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

Department of Science Education, Faculty of Education

2024 1 EXAMINATION

Programme: MEd
Course Code: EDU 808
Course Title: 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. Explain the term "mathematical model system" (3 marks)
- 1b. List four (4) guidelines to be considered while drawing up a scheme of work. (4 marks)
- 1c. Discuss the implications of mathematical language and symbolism (7 marks)
- 1d. Differentiate between General Backwardness and Particular Backwardness with respect to mathematics learning. (4 marks)
- 1e. Identify six (6) types of learning as studied by Gagne (6 marks)
- 1f. Mention and explain two (2) major ways of content organization (6 marks)
- (Total marks = 30 marks)*

- 2a. Select and evaluate five (5) criteria for content selection. (15 marks)
- 2b. Examine in a precise form, five (5) features of a well-delivered lesson. (5 marks)

3a. Mention and explain any **three (3)** criteria for desirable tests (4 marks each, total = 12 marks)

3b. Stating two (2) advantages of each, explain the following:

- Inductive method
- Deductive method (8 marks)