



NATIONAL OPEN UNIVERSITY OF NIGERIA

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

Department of Science Education, Faculty of Education

2024_2 EXAMINATION

Course Code: EDU 740

Course Title: Mathematics Methods

Credit Unit: 2 Units

Time Allowed: 2 Hours

Instruction: Answer Three (3) Questions: Question One (1) is Compulsory and any other Two (2).

- 1(a). List five (5) precautions in using discovery method in teaching mathematics.

(5 marks)

1(b). Identify **six (6)** strategies for accommodating individual differences in any mathematics class. (6 marks)

1(c). Briefly examine why Mathematics is fundamental to the study of other subjects.

(5 marks)

1(d). Discuss **any four (4)** strategies the mathematics teacher can adopt to facilitate the development of positive attitude towards the learning of mathematics by the pupils. (14 marks)

- 2a. Write short notes on the life and contributions of the following **in the growth and development of mathematics**:

- Napier
- Fermat Prierre
- Blaise Pascal
- Hero of Alexandria (16 marks)

2b. State four (4) procedures for carrying out a laboratory lesson. (4 marks)

- 3a. State and explain three (3) principles behind effective teaching methods. (12 marks)

3b. Identify four (4) steps a teacher should take in writing clear and measurable learning objectives. (4 marks)

3c. Investigate the values of Mathematics Curriculum before the Nigerian Independence. (4 marks)

4 (a.) Evaluate the implication(s) of Gagne's work to the teaching and learning of mathematics. (10 marks)

4 (b). State seven (5) reasons for writing a lesson note in mathematics classroom.
(5 marks)

4 (c). Write seven (5) objectives of setting up Mathematics Club for secondary school students. (5 marks)