



NATIONAL OPEN UNIVERSITY OF NIGERIA

91, Cadastral Zone, University Village. Nnamdi Azikwe Express way, Jabi Abuja

Faculty of Education, Department of Science Education

EXAMINATION: POP EXAMINATION 2022_2

COURSE CODE: EDU740

COURSE TITLE: MATHEMATICS METHODS

TIME ALLOWED: 2 HOURS UNITS: 2

INSTRUCTION: ATTEMPT QUESTION ONE AND ANY OTHER TWO

1. a) Explain the concept of Guided Discovery (4marks)
b) What are its advantages and disadvantages? (12marks)
c) Outline the steps on how you will use this method to teach JS II students to find the perimeter of their block of classroom. (14marks)

2. a) What developmental features of a child did Piaget postulate for the formal operational stage? (11marks)
b) What are the implications of this knowledge to Mathematics teaching and learning? (9marks)

3. Outline and discuss four types of teaching/learning approaches that can encourage the development of positive attitude towards Mathematics. (20 marks)

4. a) What is a discovery approach of Mathematics lesson? (2marks)
b) What are the two categories of a discovery teaching approach? (4marks)
c) Explain any seven precautions you will take when using discovery lesson approach to teach Mathematics (14marks)