



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

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

**Faculty of Education, Department of Science Education ...**

**COURSE CODE: EDU815**

**COURSE TITLE: INSTRUCTIONAL TECHNIQUES AND METHODS IN SCHOOL MATHEMATICS**

**TIME ALLOWED: 2 HOURS CREDIT UNITS: 2 C**

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**INSTRUCTION: ATTEMPT QUESTION ONE AND ANY OTHER TWO**

1. How will you teach an Upper Basic 1 Class (JS I) that:
  - a)  $3 \times -4 = -12$
  - b)  $-6 \times 3 = -18$
  - c)  $-3 \times -2 = 6$  **(30marks)**. (\*Lesson note is not required)
  
2. Starting with the meaning of individualized instruction, explain how a teacher can use the following approach of individualized instruction in teaching Mathematics concepts.
  - i) Work cards
  - ii) Groupings
  - iii) Individual lesson **(20 marks)**
  
3.
  - a) Show with a clear explanation, the meaning of guided and unguided discovery.
  - b) What are the advantages and disadvantages of guided discovery approach in the teaching of Mathematics? (At least 2points in each case) **(20marks)**
  
4. What will be your consideration for the use of
  - i) Essay test and
  - ii) Objective test as tools of evaluation in Mathematics? **(20marks)**