



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**91, Cadastral Zone, University Village, Nnamdi Azikwe Express way, Jabi Abuja**  
**Faculty of Education, Department of Science Education**  
**2023\_1 POP EXAMINATION**

**COURSE CODE: EDU815**  
**COURSE TITLE: INSTRUCTIONAL TECHNIQUES AND METHODS IN SCHOOL MATHEMATICS**  
**TIME ALLOWED: 2 HOURS**  
**INSTRUCTION: ATTEMPT QUESTION ONE AND ANY OTHER TWO**

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- 1a) It is not debatable that Mathematics is useful to everyone. What five Mathematics concepts does a householder make use while preparing a pot of stew. **(10marks)**
- 1b) There are many factors that can affect student in learning Mathematics, how does each of the following affect students in learning Mathematics?
  - i) The structure of Mathematics **(5marks)**
  - ii) The nature of Mathematics **(5marks)**
  - iii) The Mathematics teacher **(10marks) (TOTAL = 30marks)**
- 2. Illustrate with 3 deductive approach by which you will teach Upper Basic III pupils that the sum of angles in a triangle is  $180^\circ$  **(20mark)**
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- 3.a) Explain the term ‘reluctant learner’ and explain their characteristics. **(9mks)**
- b) What benefits can the learner and teacher derive from group Mathematics learning? **(8mks)**
- c) What 3 Mathematics concepts can you group students to learn? **(3mks)**
- 4. a) What steps should a Mathematics teacher take in remedial teaching of Mathematics. **(8marks)**
- b) In which areas of the primary Mathematics do you think learner can need remediation? Give examples of each with its remediation guidelines. **(12mks)**