



EXAMINATION: 2017_2
COURSE CODE: EDU808
COURSE TITLE: MATHEMATICS CURRICULUM & INSTRUCTION IN
SECONDARY SCHOOL
TIME ALLOWED: 2 HOURS **CREDIT UNITS:** 2 C
INSTRUCTION: ATTEMPT QUESTION ONE AND ANY OTHER TWO

1. In 6 major points discuss the fact that mathematics is a tool for the study and understanding of natural events and other academic disciplines (30 marks)
2. a) Dienes postulated 6 progressive stages in teaching and learning of mathematics. Itemise these 6 stages in their sequential order. (6marks)

b) Explain the 6 progressive stages of teaching and learning of mathematics according to Dienes. (14 marks).
- 3 a) Explain fully the third stage of Piaget's theory of intellectual development for mathematics instruction. (10marks)

b) Discuss fully the implications of Piaget's theory of mathematics instruction under two major headings of stage independent and dependent theory. (10marks)
4. a) Discuss briefly the following forms of evaluation
 - i) diagnostic evaluation
 - ii) formative evaluation
 - iii) summative evaluation (9marks)b) Justify the reasons for evaluation of students. (11marks)
5. a) Outline teachers' roles in continuous assessment (4marks)
b) With an appropriate example in each case, discuss various types of objective test items. (12marks)
c) What are the precautions you will take in preparing a multiple choice test items? (4marks)