



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF EDUCATION  
UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION  
EARLY CHILDHOOD EDUCATION  
3<sup>TH</sup> YEAR 1<sup>ST</sup> SEMESTER 2015/2016 ACADEMIC YEAR  
KISII CAMPUS – SCHOOL BASED**

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**COURSE CODE: EEC 3316**

**COURSE TITLE: MATHEMATICS CURRICULUM, INSTRUCTION AND ASSESMENT**

**DATE**

**STREAM: (B.Ed. EARLY CHILDHOOD EDUCATION)**

**TIME: 3 HOURS**

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**Instructions:**

1. Answer question **One (COMPULSORY)** and any other **two** questions
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

- 1 (a) Define the following terms (5mks)
- i) Mathematics
  - ii) Number
  - iii) Numerals
  - iv) Place value
  - v) Volume
- b) Describe the mathematics teaching strategies that you would use in your preschool class. (5mks)
- c) Discuss the effective classroom practices that support early mathematics learning. (5mks)
- d) What do you consider when providing maths experience for the preschoolers. (5mks)
- e) State the objectives of mathematics in ECDE. (5mks)
- f) Describe the teacher's role during mathematical activities in a pre-school class. (5mks)
- g) Describe the mathematics concepts skills and activities. (5mks)
- 2a) Discuss the principles of teaching mathematics. (10mks)
- b) Describe computation skills used in preschools. (10mks)
- 3a) Methods and activities for teaching and enhancing skills in mathematics (10mks)
- b) Discuss the assessment tools commonly used in preschool mathematics activities (10mks)
- 4a) Explain the purpose of Assessment of mathematic activities (10mks)
- b) Describe the connection between mathematics and other subject areas (10mks)
5. Develop a 30 minute mathematics activities lesson plan for baby class using the theme my-self. (10mks)
- b) Describe mathematical skills and concepts learnt by pre-school and lower primary concepts in pre-school and lower primary. (10mks)