



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF EDUCATION

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION ECDE**

2ND YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR

UGUNJA SCHOOL BASED

COURSE CODE: EEC 3221

COURSE TITLE: MATHEMATICS ACTIVITIES

EXAM VENUE:

STREAM: (BED ECDE)

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 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.**

- 1a) Define the following terms
- i. Mathematics
 - ii. Mathematics education
 - iii. Mathematics operations (6marks)
- b) State five objectives of teaching mathematics (5marks)
- c) Identify five activities you can use to teach the concept of speed (5marks)
- d) What is the nature of maths education (5marks)
- e) State five objectives of teaching classification skill (5marks)
- f) What are the issues affecting the teaching of mathematics in Kenya (4marks)
- 2a) What are the principles of teaching mathematics (10marks)
- b) Discuss four methods of assessing mathematics in ECDE (10marks)
- 3a) Develop a one week scheme of work for maths for 3-4year olds using the theme domestic animals (10marks)
- b) Develop a lesson plan using the above theme (10marks)
- 4 a) Discuss implication of Brunner's theory to the teaching of mathematics in ECD (10marks)
- b) Explain the modes of representation according to Brunner in relation to teaching of mathematics in ECDE (10marks)
- 5a) Discuss five methods of teaching mathematics in ECDE (10marks)
- b) Discuss five resources that can be used to teach mathematics concept (10marks)