



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
ECDE
3RD YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR
MAIN CAMPUS REGULAR

COURSE CODE: EEC-3316

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

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**

Question One

- a) Explain the 'what' the 'why' and the 'How' in ECE Mathematics (6 marks)
- b) Using the theme measurement, identify **five** sub-themes taught in ECE mathematics. (5 marks)
- c) Outline the main computation skill in ECE mathematics (4 marks)
- d) Highlight **five** major activities used to teach number concept (5 marks)
- e) Identify **seven** activities the teacher can involve the learners in to enhance the number writing skills. (7 marks)
- f) List three methods of acquiring teaching /learning materials for ECE mathematics (3 marks)

Question Two

Citing examples for each, explain the main approaches of teaching ECE mathematics (20 marks)

Question Three

- a) Describe five activities an ECE teacher can use to develop the concept 'Number recognition' in young children. (10 marks)
- b) Describe how mathematics is related to the following activity areas (10 marks)
 - I) Music/Movement
 - Ii) Creative
 - Ii)Outdoor
 - Iv) Science
 - V) Language

Question Four

- a) Why is it important to conduct assessment in ECE mathematics? (6 marks)
- b) Differentiate between formal and informal assessment in ECE mathematics (8 marks)
- c) Describe the main methods of assessing ECE mathematic in children (6 marks)

Question Five

- a) Using the theme 'classification' develop a one week schemes of work for ECE mathematics (10 marks)
- b) Why is it important for an ECE teacher to prepare a scheme of work and lesson plan before conducting his/her mathematics activity lesson? (10 marks)