



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
ARTS/SCIENCE WITH IT
3RD YEAR 1ST SEMESTER 2015/2016 ACADEMIC YEAR
MAIN 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.**

1a. Give 5 reasons why it is important to introduce mathematic concepts to young children. (5 marks)

b). what are the functions of assessment in ECE mathematics? (5 marks)

c). Explain 5 activities a teacher would involve his/her learners in when teaching the concept 'number' in ECE mathematics (5 marks)

d). Why is it important to use thematic/integrated strategy in the teaching of ECE mathematics (5 marks)

e). Identify 5 major features of a mathematics scheme of work (5 marks)

f). Give 5 characteristics of child centered method of teaching/learning ECE mathematics. (5 marks)

SECTION B: (Answer any 2 questions)

2. Describe how mathematics is related to the following areas

- i. Creative
- ii. Social studies
- iii. Outdoor
- iv. Music (20 marks)

. Draw a one day lesson plan for ECE mathematics on the topic 'NUMBER'. (10 marks)

b). Explain 5 activities that can be used to help children acquire the concept of measurement (10 marks)

1. Explain the difference between formal and informal assessment in ECE mathematics (20 marks)

2. Play is considered as one of the most effective ways of teaching ECE mathematics. Explain how the following play activities can be used to enhance the acquisition of mathematics concepts:

- i. Games
- ii. Songs
- iii. Poems
- iv. Puzzles
- v. Story telling (20 marks)