ECDE 133

CHUKA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

## EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION IN EARLY CHILDHOOD EDUCATION AND DEVELOPMENT

**ECDE 133: MATHEMATCICS FOR ECDE** 

**STREAMS:** 

**TIME: 2 HOURS** 

DAY/DATE: TUESDAY 23/03/2021

8.30 A.M – 10.30 A.M

[6 marks]

## **INSTRUCTIONS:**

Answer question one and any other two questions

## Do not write on the question paper

- 1. (a) Distinguish the following terms.
  - (i) Numbers
  - (ii) Numerals
  - (iii) Number value
  - (b) Identify three characteristics denoting the nature of mathematics. [6 marks]

(c) Describe three categories of number classification relevant for young children. [6 marks]

- (d) Outline six objectives of teaching mathematics in pre-school. [6 marks]
- (e) Using illustrations, describe three computation skills. [6 marks]
- 2. (a) Describe five ways how parents can assist children develop positive attitudes towards mathematics. [10 marks]

(b) Explain with examples the implications of piaget's theory of cognitive development to the learning and teaching of mathematics. [10 marks]

3	(a) Justify why geometry should be included in pre-school mathematics activities.
	[10
marks]	
	(b) Discuss five factors that hinder acquisition of mathematical skills among children.
	[10
marks]	
4.	(a) Analyze six factors to consider when preparing mathematics activities for
	children. [12 marks]
	(b) Describe four main principles guiding the counting process for young children.
	[8
marks]	