

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN EARLY
CHILDHOOD EDUCATION

ECDE 00134: MATHEMATICS ACTIVITIES FOR ECDE

STREAMS: CERT (ECDE)Y1S2

TIME: 2 HOURS

DAY/DATE: MONDAY 9/04/2018

8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer Question ONE and any other TWO Questions.
- Do not write anything on this paper.

QUESTION ONE

- (a) Explain the meaning of the following concepts
- (i) Number sense [2 Marks]
 - (ii) Numerals [2 Marks]
 - (iii) Numbers [2 Marks]
- (b) Explain by citing examples how you would introduce the four basic mathematics operations to children. [12 Marks]
- (c) Explain four sources of evidence of deficits in children's early number logic. [12 Marks]

QUESTION TWO

Discuss the stages of cognitive development in relation to Piaget's theory of cognitive development. [20 Marks]

QUESTION THREE

- (a) Discuss five importance of mathematics in day to day life. [10 Marks]
- (b) Citing relevant examples, discuss how the following mathematics activities can be taught to children;
- (i) Matching and pairing [5 Marks]
 - (ii) Emptying and filling [5 Marks]

QUESTION FOUR

(a) Discuss any five ideas an ECDE teacher may use to help a child develop early mathematics skills. [10 Marks]

(b) Describe five objectives of mathematics activities in ECDE. [5 Marks]

(c) Discuss the mathematics language that children acquire at ECDE level. [5 Marks]

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