

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EMBU

EXAMINATION FOR THE AWARD OF CERTIFICATE IN EARLY
CHILDHOOD EDUCATION

ECDE 00134: MATHEMATICS ACTIVITIES

STREAMS: CERT. ECDE (PART-TIME)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 07/8/2019

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer question ONE and any other TWO questions
- Do not write on the question paper

- Define the following concepts as used in mathematics
 - Numbers [2 marks]
 - Numerals [2 marks]
 - Capacity [2 marks]
 - Highlight four activities a teacher can involve children in when introducing the number value concept. [4 marks]
 - State the objectives of teaching mathematics in ECDE [5 marks]
 - Highlight everyday activities that children can apply the knowledge acquired from mathematics activities [6 marks]
 - Give the importance of pre-number activities to young children [5 marks]
 - State four factors to consider when preparing lesson plan [4 marks]
- Explain piaget's theory of cognitive development in relation to teaching mathematics in ECDE [10 marks]

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- (b) Discuss the factors to consider when providing mathematics activities to young children [10 marks]
3. (a) Describe the nature of mathematics for early childhood development and education [10 marks]
- (b) Discuss five factors which hinders learning of mathematics in preschools [10 marks]
4. (a) Discuss factors to consider when designing and developing materials [10 marks]
- (b) Describe the assessment tools for assessing children's achievement in mathematics [10 marks]
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