

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DIPLOMA OF EDUCATION IN EARLY  
CHILDHOOD DEVELOPMENT AND EDUCATION**

**ECDE 0235: MATHEMATICS ACTIVITIES**

**STREAMS: DIP (ECDE)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 04/12/2018**

**11.30 A.M. – 1.30 P.M.**

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**INSTRUCTIONS:**

- **Answer question ONE and any other THREE questions**

1. (a) Explain the following terms.
  - (i) Rote counting
  - (ii) Mathematics
  - (iii) Numbers
  - (iv) Mathematical operations (8 marks)
- (b) Describe with five points nature of mathematics. (10 marks)
- (c) Suggest four ways in which a teacher can reinforce concept of money to preschoolers. (4 marks)
- (d) Identify three activities children can be engaged in during number writing activity. (3 marks)
2. (a) Discuss six importance of mathematics to young children. (12 marks)
- (b) State three activities which can be used to enhance the concept of time among preschoolers. (3 marks)
3. (a) Identify three importance of mathematics in life. (6 marks)
- (b) Highlight three activities for enhancing ordering and sequencing among preschool children. (6 marks)

- (c) State three activities teachers can use to enhance identification of shapes among the preschool children. (3 marks)
4. (a) Explain five implications of Brumers theory in teaching of mathematics for early childhood. (10 marks)
- (b) State three computation skills for preschoolers/ECDE. 3 marks)
- (c) Describe two activities to be used for number recognition in ECDE. (2 marks)
5. (i) Identify five activities children perform during measurement lesson to reinforce the concept of measurement. (10 marks)
- (ii) Highlight five considerations teachers should have when providing mathematics experiences to preschoolers. (5 marks)
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