

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**THARAKA CAMPUS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION  
IN ECDE**

**ECDE 133: MATHEMATICS FOR ECDE**

**STREAMS: ECDE Y2S2 SB**

**TIME: 2 HOURS**

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

**8.30 A.M. – 10.30 A.M.**

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**INSTRUCTIONS:**

- **Question ONE is compulsory.**
- **Answer any other THREE questions.**

Q1. (a) Define the following terms as used in mathematics for ECDE

- (i) Mathematics
- (ii) Numbers
- (iii) Digits
- (iv) Numerals
- (v) Rote count
- (vi) Spatial concept

(b) Explain the goals of teaching mathematics to preschool children. (5 marks)

(c) Discuss the significance of mathematics in our daily activities. (8 marks)

(d) Identify the objectives of teaching ECDE mathematics. (6 marks)

Q2. (a) Elaborate on how you could help the preschool children to learn mathematical skills. (7 marks)

(b) In number writing, children are usually assisted to learn to trace numbers. Give a detailed exposition on how you would introduce number writing to a preschool class citing material you may use as teaching aids. (8 marks)

- Q3. (a) Discuss the early mathematical concepts and skills which learners should be assisted to assimilate at their tender ages of learning. (10 marks)
- (b) Discuss what rational counting exhibit in learning and teaching in lower primary schools. (5 marks)
- Q4. Elaborate on the nature of ECDE mathematics. (15 marks)
- Q5. (a) Discuss the implications of Jerome and Piaget theories of learning at ECDE levels. (10 marks)
- (b) Give an account of Piaget's theory in teaching and learning mathematics. (5 marks)
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