CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

CHUKA & EMBU

EXAMINATION FOR THE AWARD OF
DIPLOMA IN EARLY CHILDHOOD DEVELOPMENT EDUCATION

ECDE 0235: MATHEMATICS ACTIVITIES

STREAMS: DIP (ECDE)   **TIME: 2 HOURS**

DAY/DATE: TUESDAY 14/04/2020   **2.30 PM – 4.30 PM**

INSTRUCTIONS:

- **Answer Question One and any other Two**
- **Do not write on the question paper**

1. (a) Define the following terms: [5 marks]

        (i)   Mathematics
        (ii)   Scheme of work
        (iii) Numerals
        (iv)   Rote-count
        (v)   Number value

    (b) Briefly discuss the factors to consider when planning mathematics lesson for ECDE learners.   [5 marks]

    (c) Highlight the importance of planning before teaching mathematics activities to young children.   [5 marks]

    (d) Outline the various areas of measurement appropriate for pre-primary II mathematics activities.   [4 marks]

(e) Analyze different methods used in assessing children's learning mathematics in ECDE level. [6 marks]

(f) Describe the role of an ECDE teacher in teaching and learning of mathematics activities. [5 marks]

2. (a) Explain the nature and scope of mathematics for ECDE. [10 marks]

(b) Mathematics is important in the lives of young children. Justify this statement. [10 marks]

3. (a) Using a strand and sub-strand of your choice, prepare the following documents for mathematics activities in pre-primary one (PPI)

(i) Schemes of work for one week [10 marks]
(ii) Lesson plan (one) [6 marks]

(b) Highlight different types of materials used in teaching and learning of mathematics activities. [4 marks]

4. (a) Using relevant examples, explain five principles of teaching mathematics in ECDE. [10 marks]

(b) Describe the piagets theory and its implication in the teaching and learning of mathematics in ECDE. [10 marks]