CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN EARLY CHILDHOOD EDUCATION

ECDE 00134: MATHEMATICS ACTIVITIES FOR ECDE

STREAMS: CERT (ECDE)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 31/3/2021   **2.30 PM – 4.30 PM**

INSTRUCTIONS:
- Answer question one and any other Two.
- Do not write anything on the question paper

Q1.(a) Define the following terms: [5 Marks]
   i) Mathematics

   ii) Numeral

   iii) Rote-count

   iv) Number value

   v) Mathematical operations

   (b) Briefly discuss the factors to consider when planning mathematics lesson for ECDE learners.   [8 Marks]

   (c) Highlight the roles of an ECDE teacher in teaching and learning of mathematics activities.   [5 Marks]

   (d) Outline the importance of proper planning before teaching mathematics activities to young learners.   [5 Marks]

   (e) Describe the different methods used in assessing children's learning mathematics in ECDE levels.   [7 Marks]
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Q.2. (a) Describe Five objectives of teaching mathematics activities to learners.   [10 Marks]
     (b) Mathematics is important in life of a young learner. Justify this statement.[10 Marks]

Q.3. Using a strand and sub-strand of your choice, prepare the following documents for
      mathematics activities in grade 1.
   i) Schemes of work for one week.   [12 Marks]
   ii) Lesson plan for one lesson   [8 Marks]

Q.4. (a) Using relevant example, explain five principles of teaching and learning of mathematics
      in ECDE.   [10 Marks]

     (b) Highlight different types of materials used in teaching and learning of mathematics
        activities.   [6 Marks]

     (c) Discuss 4 objectives of carrying out sorting and grouping activities to ECDE learners.
                                                                                    [4 Marks]

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