CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION IN EARLY CHILDHOOD EDUCATION

ECDE 233: MATHEMATICS FOR ECDE

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

DAY/DATE: TUESDAY05/12/2017   **2.30 P.M. – 4.30 P.M.**

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER THREE

1.   (a)   Differentiate the following terms as used in mathematics for ECDE.   [10 marks]

      (i)   Numeral and number sense

      (ii)   Number and digit

      (iii)   Number value and number recognition

      (iv)   Mathematical symbol and mathematical operation

      (v)   Rote counting and rational counting

   (b)   State five (5) objectives of teaching mathematics in ECDE program.   [5 marks]

   (c)   Outline the nature of mathematics for young children in preschool.   [5 marks]

   (d)   Describe the classification activities for pre-school.   [5 marks]

2.   Elaborate on the contributions of the following to mathematics instruction in ECDE

   (a)   Jean Piaget   [8 marks]

   (b)   Jerome Bruner   [7 marks]

3.   Discuss the significance of mathematics in the lives of young children.   [15 marks]

4.   Discuss factors that a teacher in ECDE needs to consider when providing mathematical experiences to young children in preschool.   [15 marks]

5.   Describe how the concept of geometry could be introduced to learners in ECDE program.

[15 marks]