MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF EDUCATION

DEPARTMENT OF EARLY CHILDHOOD EDUCATION

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

CERTIFICATE IN EARLY CHILDHOOD EDUCATION (TVET)

MATHEMATICS ACTIVITIES

DATE: 16/4/2019   **TIME: 8:30 – 11:30 AM**

INSTRUCTIONS

Attempt question ONE and any other FOUR Questions

1. a) Define the following terms related to mathematics activities   (10 marks)
    - i)   Mathematics
    - ii)   Number
    - iii) Classification
    - iv)   Measurement
    - v)   Ordering

    b) Develop assessment tool to evaluate children progress in mathematic activities
    (10 marks)

    c) Highlight fie objectives for teaching mathematics in ECDE class.   (10 marks)

2. a) Discuss four measurements and geometrical concept taught in ECDE   (8 marks)

    b) Describe three sorting and grouping activities   (12 marks)

3. a) Explain the following mathematical language used in ECDE (10 marks)
    - i)   Greater than
    - ii)   Equal
    - iii) Sum
    - iv)   Sequencing
    - v)   Less than

b) Discuss the following number concepts (10 marks)

      i) Number recognition
      ii) Number value

4. a) Explain the importance of mathematics in daily activities. (10 marks)

   b) Discuss giving examples four mathematical operation (10 marks)
      i) Addition
      ii) Subtraction
      iii) Division
      iv) Multiplication

5. a) Explain instructional method that can be used in teaching mathematics activities

    in ECDE (10 marks)

   b) Explain five methods of assessing children progress in mathematics activities.
(10 marks)