

MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF EDUCATION

DEPARTMENT OF EARLY CHILDHOOD EDUCATION

FIRST YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN EARLY CHILDHOOD EDUCATION MATHEMTICS ACTIVITIES

DATE: 16/4/2019 TIME: 8:30 – 11:30 AM

INSTRUCTIONS

3.

a)

b)

Answer Question One and Any Other Two Questions 1. Define the following terms. (10 marks) a) i) **Mathematics** Mathematical concept ii) iii) Volume Addition iv) Subtraction v) b) Describe the **four (4)** computational skills (12 marks) Explain the following measurement skills c) (8 marks) i) Capacity ii) Time Speed iii) iv) 2. Discuss **five (5)** roles of teaching and learning materials in ECDE mathematics a) activities. (10 marks) Explain **five (5)** type of teaching and learning material used in ECDE centres. b) (10 marks)

Describe **five** (5) the principles of teaching mathematics in ECDE

Analyse five (5) objectives of mathematics in ECDE

(10 marks)

(10 marks)

- 4. a) Design appropriate instrument for assessing children achievements in mathematics (10 marks)
 - b) Discuss the implication of Piaget's theory in teaching mathematics activities in ECDE (10 marks)
- 5. a) Describe **five** (5) classification activities done in ECDE centres. (10 marks)
 - b) Discuss how mathematics develops logical thinking. (10 marks)