



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2016/2017**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR DEGREE  
OF BACHELOR OF EDUCATION IN EARLY CHILDHOOD  
EDUCATION WITH INFORMATION TECHNOLOGY**

**MAIN CAMPUS**

**ECE 307: METHODS OF TEACHING MATHEMATICS ACTIVITIES**

Date: 28<sup>th</sup>, November, 2016

Time: 8.30 - 11.30am

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**INSTRUCTIONS:**

- Answer Question ONE and any other THREE.



### QUESTION ONE

a Explain the meaning of the following terms as used in mathematics:

i Measurement. ( 2 marks)

ii Numeral. ( 2 marks)

iii Capacity. ( 2 marks)

b Explain any **five** pointers to effective remediation of mathematics activities

( 10 marks)

c Outline any **four** objectives of teaching mathematics to young children.

( 4 marks)

d Describe any **five** ordering and sequencing activities .

( 5 marks)

### QUESTION TWO

a Explain any **seven** activities an ECDE teacher would use to develop the concept time in pre school children ( 7 marks)

b Discuss any **eight** importance of using teaching/ learning resources while teaching mathematics activities to young children ( 8 marks)

### QUESTION THREE

a Discuss any **five** importance of assessing mathematics achievement in pre school. ( 5 marks)

b Explain any **five** limitations of teacher made tests in assessing young children mathematical achievements. (10 marks)

#### QUESTION FOUR

- a Discuss any **five** importance of developing a lesson plan during mathematics activities . ( 10 marks)
- b Outline any **five** activities that a teacher would involve the pre school children in order to acquire classification skills in mathematics. ( 5 marks)

#### QUESTION FIVE

- a Discuss any **five** principles of teaching mathematics to pre school children. ( 10 marks)
- b Explain any **five** reasons that makes it necessary for a teacher to have remarks elements in a scheme of work for mathematics activities. ( 5 marks)

#### QUESTION SIX

- a Outline any **seven** considerations to make while choosing teaching resources for mathematics activities . ( 7 marks)
- b Describe any **four** activities you can engage children in to acquire the skill of classification . ( 8 marks )