

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

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

MAIN CAMPUS

ECE 201: MATHEMATICS ACTIVITIES

Date: 8th December 2016

Time: 12.00 - 3.00pm

INSTRUCTIONS:

Answer Question ONE and any other THREE.

ISO 9001:2008 CERTIFIED



QUESTION ONE

a Define the following terms as used in mathematics :

i Number. (2 marks)

ii Mathematics operations. (2 marks)

iii Volume. (2 marks)

b Discuss any five objectives of teaching mathematics to pre school children

(10 marks)

c Outline any four branches of mathematics.

(4 marks)

d Discuss any five ways on how you can help children to understand the concept of time during mathematics activities. (5 marks)

QUESTION TWO

a Describe any five activities for rote counting

(5 marks)

b Discuss any **five** factors to be considered when providing mathematical experiences to young children. (10 marks)

QUESTION THREE

Discuss with relevant examples the principles of teaching mathematics.

(15 marks)

QUESTION FOUR

a Explain any four benefits of mathematics in life.

(8 marks)

b Describe any seven activities that a teacher would involve the pre school children in in order to acquire number recognition. (7 marks)

QUESTION FIVE

a Discuss any five levels of nature of mathematics in ECDE

(5 marks)

b Explain any five ways how you can help a child to understand the concept of division in mathematics activities. (10 marks)

QUESTION SIX

Discuss any **five** implications of Piaget and Brunner's Theory on the teaching and learning of mathematics. (15 marks)