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MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SCHOOL OF EDUCATION**

**BACHELOR OF EDUCATION (ECDE)**

**COURSE CODE: ECDE 313**

**COURSE TITLE: METHODS OF TEACHING**

**ECDE MATHEMATICS**

**DATE: 27TH APRIL 2017 TIME: 2.00PM-4.00PM**

**INSTRUCTIONS TO CANDIDATES**

* ***Answer question ONE (compulsory) and any other TWO questions.***
* ***Question one carries 30 marks***
* ***All other questions carry 20 marks***

*This paper consists of 3 printed pages. Please turn over.*

**QUESTION ONE**

1. Explain any four objectives of teaching mathematics to pre-school children **(4 marks)**
2. Discuss the importance of mathematics in the life of a young child

**(5 marks)**

1. Explain **any three** strategies of assessment **(3marks)**
2. Highlight the **four** basic rules to be adhered to when setting a test

**(4 marks)**

1. Differentiate between a schemes of work and a lesson pla n **(2 marks)**
2. With examples, distinguish between **Rote counting** and **meaningful**

**counting**  **(4 marks)**

1. Explain activities that an ECDE teacher would wish to enhance a concept

of number writing to young children **(3 marks)**

**QUESTION TWO**

1. Explain the role played by mathematics in the development of techniques of investigations of problem solving strategies **(12 marks)**
2. Discuss how children develop the ability to analyze and make rational

decisions  **(8 marks)**

**QUESTION THREE**

1. Citing examples, discuss at least **five** methods a teacher would use in

teaching mathematics to young children  **(15 marks)**

1. Highlight and explain five types of resources an ECDE teacher would use in teaching mathematics  **(5 marks)**

**QUESTION FOUR**

1. Piaget’s theory of cognitive development addresses the sequence that

children go through learning about the world. Briefly discuss his **FOUR** stages **(16 marks)**

1. Explain four implication of Piaget’s and Brunner’s theories in teaching

mathematics to young children **(4 marks)**

**QUESTION FIVE**

1. Citing examples, explain the activities an ECDE teacher would use when

teaching young children:

1. Sorting and grouping **(4 marks)**
2. Matching and pairing **(4 marks)**
3. Discuss the importance of teaching learning/materials n an ECDE class **(12 marks)**