CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS IGEMBE

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION (ECDE)

ECDE 133: MATHEMATICS ACTIVITIES FOR ECDE

STREAMS:BED(ECDE) PART TIME TIME: 2 HOURS

DAY/DATE: WEDNESDAY 4/12/2019 2.30 P.M – 4.30 P.M

INSTRUCTIONS

Answer question one in section A is compulsory Answer and any other two questions in section B Do not write on the question paper

- 1. Explain the meaning of the following terms;
 - (a) (i) Assimilation

[2 marks]

(ii) Accommodation

[2 marks]

(b) (i) State and explain four basic mathematics operations.

[4 marks]

(ii) Differentiate between mathematical operation and mathematical expression.

[4

marks]

- (c) Explain the three learning experiences through which children acquire mathematical skills and concepts. [6 marks]
- (d) According to Brunner, young children undergo three stages of development. Cite and explain these stages. [6 marks]
- (e) Briefly explain at least six mathematical activities that can be used by an ECD professional to integrate skills in all mathematical key components in order to build a solid foundation for mathematics. [6 marks]

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SECTION B

- (a) Discuss briefly the nature of mathematics for early childhood. [10 marks](b) Explain the significance of mathematics in life. [10marks]
- 3. (a) Discuss the implication of piaget theory in regard to the stages of cognitive development in ECDE mathematics instructions. [10 marks]
 - (b)(i) Explain at least five goals of mathematical instructions in ECDE. [5 marks](ii) Discuss major achievements a preschool learner makes at intuitive thought stage (4-7 years).
- 4. (a) State and explain three groups of classification giving at least three examples of activities involved in each case. [10 marks]
 - (b) Discuss computational activities that can be introduced at preschool level in addition and subtraction. [10 marks]