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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/2021 ACADEMIC YEAR THREE**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF EDUCATION, ARTS AND SOCIAL SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)**

**COURSE CODE: ECE 306**

**COURSE TITLE: MATHEMATICS ACTIVITIES FOR ECDE**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 10/10/2021 TIME: 12.00-2.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining FOUR (4) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of TWO (2) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. With illustration, describe how you would use the following activities to enhance acquisition of mathematic concepts.
2. Filling and emptying. (5marks)
3. Sorting and grouping. (5marks)
4. Explain the nature of mathematics for young children. (10marks)
5. Highlight on the teacher’s role in teaching of ECDE mathematics. (10marks)

**QUESTION TWO**

1. Describe the Bruner’s theory levels of knowing related to instruction. (10marks)
2. Discuss why mathematics is important in life. (10marks)

**QUESTION THREE**

1. Describe the three learning experiences through which children acquire mathematical concepts. (10marks)
2. Discuss the importance of planning for ECDE mathematics instruction. (10marks)

**QUESTION FOUR**

1. Using appropriate examples, explain five principles of teaching mathematics in ECDE. (10marks)
2. Discuss the importance of the following assessment tools in ECDE mathematics.
3. Observation (5marks)
4. Checklist (5marks)

**QUESTION FIVE**

1. Differentiate between
2. Capacity and volume as used in ECDE mathematics activities. (5marks)
3. Describe an activity that promotes understanding of capacity. (5marks)
4. Explain five factors to consider when designing and developing materials for ECDE children. (10marks)