



# **GRETSA UNIVERSITY - THIKA**

## **UNIVERSITY EXAMINATIONS MAY - AUGUST 2018 SEMESTER**

### **CERTIFICATE IN EARLY CHILDHOOD EDUCATION**

**COURSE CODE: CECE 006**

**COURSE TITLE: MATHEMATICS ACTIVITIES**

**DATE: 7 AUGUST 2018**

**TIME: 3.00 PM – 5.00 PM**

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#### **INSTRUCTIONS TO CANDIDATES**

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

**CAUTION:** *All exam rooms are under CCTV surveillance during the examination period.*

## SECTION A: COMPULSORY

### Question One

1. a. Define the following terms  
Mathematic [2 marks]  
Number value [2 marks]  
Rote counting [2 marks]
- b. Discuss **three** sorting and grouping activities [6 marks]
- c. Discuss **three** reasons for planning for mathematics [6 marks]
- d. Explain **three** activities that can help children acquire speed related vocabulary [6 marks]
- e. Describe importance of teaching materials in mathematics [6 marks]
- f. Explain **two** purpose of assessment in mathematics [4 marks]
- g. Describe **two** importance of mathematics in life [2 marks]
- h. Explain **two** reasons for keeping a progress record for your class [4 marks]

## SECTION B: ANSWER ANY THREE QUESTIONS

### Question Two

- a) Explain **five** points to consider when preparing mathematical activities for young children [10 marks]
- b) Discuss five objectives of teaching mathematics in ECDE [10 marks]

### Question three

- a) Explain the nature of mathematics to young children [10 mark]
- b) Discuss **three** activities to help children count in the right sequence [6 marks]
- c) Suggest **two** materials that you can use to number writing [4 marks]

### Question Four

- a) Define number value [2 marks]
- b) Explain **three** activities for number value [6 marks]
- c) Discuss six factors to consider when and developing materials for mathematics [12 marks]

**Question five**

- a) Discuss **five** types of assessments for mathematics [10 marks]
- b) Explain **three** activities that can assist children in number writing [6 marks]
- c) Describe **two** activities to encourage the identification of shapes [4 marks]

**Question six**

- a) Outline **five** points can hinder the learning of mathematics activities among children [10 marks]
- b) Discuss **five** activities that help children develop the concept of time [10 marks]