

SCHOOL OF EDUCATION

AUGUST - DECEMBER 2019 END OF SEMESTER EXAMINATION HOLIDAY-BASED PROGRAMME

EXAMINATION FOR BACHELOR OF EDUCATION (ECDE) REC 203: MATHEMATICS ACTIVITIES

INSTRUCTOR: LUCY NGODE

DATE:	TIME: 2 HOURS
-------	---------------

GENERAL INSTRUCTIONS:

Students are NOT permitted to write on the examination paper during reading time.

This is a closed book examination. Text books/reference books/notes are not permitted.

SPECIAL INSTRUCTIONS:

- 1. Write your ADMISSION NUMBER clearly on the cover of the answer booklet(s).
- 2. Answer Question ONE and ANY OTHER TWO questions.
- 3. Questions in all sections should be answered in answer booklet(s).
- 4. Marks allocated to each question are shown at the end of the question.
- 5. PLEASE start the answer to EACH question on a NEW PAGE.
- 6. Indicate the number of the questions answered on the cover of the answer booklet(s) in the order you answered them.
- 7. Write your answers in paragraph form unless stated otherwise.
- 8. Keep your phone(s) SWITCHED OFF at the front of the examination room.
- 9. Keep ALL bags and caps at the front of the examination room and do not refer to any unauthorized material before or during the course of the examination.
- 10. You are only allowed to leave the examination room 30 minutes to the end of the Examination.

QUESTION ONE: COMPULSORY (20 MARKS)

a) Explain the mathematical experience that children have before they join Pre School.

(4 marks)

b) Justify the statement that "children learn mathematics best through using concrete objects.

(4 marks)

c) Examine FOUR factors to consider when preparing mathematics activities for young children.

(12 marks)

QUESTION TWO

Examine the implications of Piaget's theory of cognitive development to the learning and teaching of mathematics activities. Cite relevant examples. (20 marks)

QUESTION THREE

a) Explain FOUR principles of teaching mathematics in ECDE.

(8 marks)

b) Analyze factors that hinder practice and review of mathematics activities among children.

(12 marks)

QUESTION FOUR

You have been invited to talk to ECDE teachers on the effective techniques of teaching mathematics. Examine FIVE points you would include in your speech. (20 marks)

QUESTION FIVE

a) Distinguish between formal and informal assessment.

(4 marks)

- b) Explain 3 reasons why observation is the most widely used method of evaluation in preschool learning environment. (6 marks)
- c) Analyze how an ECDE teacher can use sorting and grouping activities to enhance acquisition of mathematical skills and concepts. (10 marks)