



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER**

**SCHOOL OF EDUCATION
BACHELOR OF EDUCATION
(EARLY CHILDHOOD EDUCATION WITH
PROJECT MANAGEMENT)**

**COURSE CODE: ECP 3201-1
COURSE TITLE: METHODS OF TEACHING
MATHS, SCIENCE AND ENVIRONMENTAL
ACTIVITIES**

DATE: 21/4/2023

TIME: 1100-1300 HRS

INSTRUCTIONS TO CANDIDATES

Question **ONE** is compulsory

Answer any other **TWO** questions

SECTION A (COMPULSORY)

QUESTION 1

- (a) Define the following terms: -
- i. Mathematical operation (1 marks)
 - ii. Number value (1 marks)
 - iii. Science (1 marks)
 - iv. Scientific literacy (1 marks)
 - v. List down any **TWO (2)** Strategies of science teaching (2 marks)
- (b). State any **Four (4)** goals of teaching Mathematics in ECDE (4marks)
- (c). State **Ten (10)** objectives of Mathematics in ECDE. (10 marks)

SECTION B (CHOOSE ANY TWO QUESTIONS)

QUESTION 2

- (a) Explain why it is important to plan for a mathematics lesson. (5 marks)
- (b) What should a teacher consider when providing mathematical experience to young children in an early childhood center? (10 marks)

QUESTION 3

- (a) State any **Five (5)** Objectives of teaching Science in ECDE (5 mark)
- (b) Discuss any **Five (5)** reasons why Science skills are important to young children in ECDE. (10 marks)

QUESTION 4

- a. Define the term “Scientific inquiry” (1 mark)
- b. Outline **five (5)** characteristics of the inquiry instruction as a process of teaching Science. (5 marks)
- c. Explain the Rationale for science instruction in ECDE (9 marks)

QUESTION 5

Develop a 2 weeks competency-based curriculum (CBC) Science schemes of work for grade 4. (15 marks)

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