



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF SCIENCE AND
TECHNOLOGY (MMUST)**

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER EXAMINATIONS
MAIN EXAM**

**FOR
THE BACHELOR OF EDUCATION DEGREE
(EARLY CHILDHOOD EDUCATION)**

COURSE CODE: ECD 204

COURSE TITLE: SCIENCE AND MATHEMATICS IN ECDE

DATE: 27TH APRIL 2023

TIME: 12:00 - 2:00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question **One** and any other **Two** questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

SECTION ONE

1. a) Explain the importance of technology in teaching young learners science and mathematics
(5 marks)
- b) Briefly explain the four types of inquiry-based learning (IBL) in young children.
(4 marks)
- c) Explain five objectives of teaching science and mathematics in ECD centers
(5 marks)
- d) State **Six** characteristics of a good science and mathematics teacher
(6 marks)
- e) Explain **Five** qualities of a science and mathematics activities for young children
(5 marks)
- f) Describe **Five** methods and approaches used in teaching science and mathematics in ECD centers
(5 marks)

SECTION TWO

2. a) Science is an appropriate activity for young children. Discuss
(10 marks)
- b) Describe the characteristics of child-centered learning approach
(10 marks)
3. a) State and explain **Six** benefits of inquiry based learning (IBL) in science and Mathematics.
(12 marks)
- b) Describe any **Five** factors considered while choosing appropriate t/l resources for young children
(8 marks)
4. a) Explain **Five** roles of science and mathematics in child growth and Development
(15 marks)
- b) List **Five** skills of science and mathematics for young children
(5 marks)
- 5.a) Briefly explain what is meant by implementation of science and mathematics in preschool
(4 marks)
- b) Explain formal and informal science and mathematics experiences for young children
(16 marks)