



(University of Choice)

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

UNIVERSITY EXAMINATIONS

2021/2022 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: 22/04/2022

TIME: 3:00 – 5:00 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) State and briefly explain five objectives of teaching science and mathematics in EYE centers (5 marks)
- b) Describe **Five** learning corners in EYE science and mathematics classroom (5 marks)
- c) Briefly explain why science is considered as a discipline (4 marks)
- d) State **Six** characteristics of a good science and mathematics teacher (6 marks)
- e) Outline **Five** qualities of a science and mathematics activities for young children (5 marks)
- f) State **Five** methods and approaches used in teaching science and mathematics in EYE centers (5 marks)

SECTION TWO

2. a) Discuss the implications of Jerome Brunner in the development of science and maths in EYE (10 marks)
- b) Describe the characteristics of child centered learning approach (10 marks)
3. a) State and explain **Six** T/L resources that is suitable for teaching science and maths (12 marks)
- b) Outline any **Five** factors considered while choosing appropriate t/l resources for young children (8 marks)
4. a) Discuss **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) Outline any **Three** theories applicable to learning and teaching science and mathematics in preschool (6 marks)
- b) Explain the theories outlined in 5 (a) above (14 marks)