



(University of Choice)
**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATIONS
SPECIAL SUPPLEMENTARY EXAM**

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

COURSE CODE: ECD 204

COURSE TITLE: Science and Mathematics for Early Childhood Education

DATE: 1st August, 2022

TIME: 2.00-4.00PM

INSTRUCTIONS TO CANDIDATES

Question ONE (1) is compulsory
Answer ANY other TWO (2) questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating



SECTION A: ANSWER ALL QUESTIONS

1. a) Briefly explain why science is considered as a discipline (3mks)
- b) List five characteristics of a good science and Math's teacher (5mks)
- c) Briefly discuss three methods and approaches in teaching Science and Maths (9mks)
- d) Differentiate between informal science and formal science (4mks)
- e) Briefly explain why mathematics is classified under natural science (5mks)
- f) State four objectives of teaching science in pre-school (4mks)

SECTION B: ANSWER ANY TWO QUESTIONS

2. a) Science is an interconnect series of course and skills which have developed because of observation and experimentation. Discuss (20mks)
3. a) Identify and discuss five difficulties that pre-school children experience in their learning centres. (15mks)
- b) Highlight some five reasons why Maths and science is poorly performed across the entire system in Kenya. (5mks)
4. Discuss four theories applicable to learning and teaching science and Mathematics in young children (20mks)
5. Differentiate between teacher and centered and learner centered approaches in learning science and mathematics in early year of education (20mks)