



## KIBABII UNIVERSITY UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION EARLY CHILDHOOD

**COURSE CODE: ECD 314** 

COURSE TITLE: METHODS OF TEACHING SCIENCE AND MATHEMATICS IN EARLY CHILDHOOD EDUCATION

DATE: 27/05/2022

TIME: 2-4PM

## INSTRUCTIONS TO CANDIDATES

Answer question one and any other two (2) questions

TIME: 2Hours

This paper consists of 2 printed pages please turn over

## **SECTION A -Compulsory**

Question One	(30marks)
a) Explain any five general outcomes for teaching mathematical activities to	young children (5marks)
b) Substantiate the rationale of planning for science and mathematical activity	ies (5marks)
c) Describe any five concepts learners learn in mathematical activities	(5marks)
d) Is mathematics a science or an art?	(5marks)
e) Discuss how drug addiction affect the learning of science and mathematica preschoolers	l activities of (5marks?)
f) Illustrate five weather symbols learned by learners during Science lessons	(5marks)
Question Two	(20marks)
<ul> <li>a) Analyze the objectives of teaching environmental science activities to you</li> <li>b) Using relevant examples, explain the two categories of teaching methods</li> </ul>	(10marks)
scientists	(10marks)
Question Three	(20marks)
a) Describe how one should teach animals to learners	(10marks)
b) Explain the features of a good teacher of science	(10marks)
Question Four	(20marks)
a) Discuss steps taken in carrying out a scientific experiment by the class (16	marks)
b) Describe 4 sub-strands that are taught under the universe strand at level	(4marks)
Question Five	(20marks)
<ul> <li>Explain how the following simple machines are used in Science and Mathemativities.</li> </ul>	ematical
i) Beam balance	(5marks)
ii) Inclining plane	(5marks)
<ul> <li>Describe any five experiences that enhance pre-school concepts and skills mathematics</li> </ul>	in science and (10marks).