KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION EARLY CHILDHOOD

COURSE CODE: ECD 303

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

DATE: 21st July 2021   **TIME: 9-11 A.M.**

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 (30marks)-compulsory

Question One

a) State any five general outcomes for teaching mathematical activities to young children

(5marks)

b) Substantiate the rationale of planning for science and mathematical activities (5marks)

c) List any five concepts EYE learners learn in mathematical activities (5marks)

d) Is mathematics a science or an art? (5marks)

e) How does drug addiction affect the learning of science and mathematical activities of preschoolers (5marks?)

f) Illustrate five weather symbols learned by EYE learners during Science lessons (5marks)

Question two

a) Analyze the objectives of teaching environmental science activities to young children

(10marks)

b) Using relevant examples evaluate the **two** categories of teaching methods to young scientists (10marks)

Question three

a) Describe how one should teach animals to EYE learners (10marks)

b) Explain the features of a good teacher of science (10marks)

Question four

a) Discuss steps taken in carrying out a scientific experiment by an EYE class (16marks)

b) Which 4 sub -strands are taught under the universe strand at EYE level (4marks)

Question five

a) How are the following simple machines used in Science and Mathematical activities at EYE level?

i) Beam balance (5marks)

ii) Inclining plane (5marks)

b) Describe any five experiences that enhance pre-school concepts and skills in science and mathematics (10marks).