



UNIVERSITY EXAMINATIONS
SECOND YEAR EXAMINATION FOR THE AWARD OF
THE DEGREE OF BACHELLOR OF EDUCATION
FIRST SEMESTER 2023/2024
[AUGUST-DECEMBER, 2023]

ECDE 223: SCIENCE ENVIRONMENTAL EDUCATION FOR ECDE
STREAM: Y2 S1 **TIME: 2 HOURS**

DAY: MONDAY, 9.00 – 11.00 A.M. **DATE: 27/11/2023**

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer Questions ONE and any other TWO Questions***

QUESTION 1

- a) Define the phrase 'Philosophy of Science' (1 marks)
- b) Discuss the advantages of using dynamic view to teach science in pre-schools (8 marks)
- c) Explain why it is important for Bed ECDE teacher trainees to study Science Environmental Education. (15 marks)
- d) Differentiate the following terms: first, second and third class levers of simple machines. (6 Marks)

QUESTION 2

- a) Explain why it is important for ECDE teachers to use teaching and learning materials in teaching science (10 marks)
- b) Discuss five reasons why it is preferable for ECDE teachers to use dynamic view in the teaching of science in preprimary school (10 marks)

QUESTION 3

- a) Briefly describe nature of African Indigenous science. (10 marks)
- b) Discuss the significance of Piaget's theory of cognitive development in the teaching of science in pre-primary school. (10 marks)

QUESTION 4

- a) Describe ten properties of solids and indicate where each property is applied in our daily lives. (10 marks)
- b) Giving examples, explain any five ways in which animals depend on each other (10 marks)

QUESTION 5

- a) Discuss five advantages of friction in our day to day lives. (10mark)
- b) Describe **five** characteristics of sound energy. (10 marks)