



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF EDUCATION IN EARLY CHILDHOOD EDUCATION SECOND SEMESTER, 2022/2023 (JUNE - SEPTEMBER, 2022)

ECDE 223: SCIENCE AND TECHNOLOGY IN ECDE

STREAM: Y2 S2

TIME: 2 HOURS

DAY: TUESDAY, 12:00 – 2:00 P.M.

DATE: 13/09/2022

INSTRUCTIONS

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

QUESTION ONE

- Define the following terms
 - Science (2 marks)
 - Technology (2 marks)
- Discuss the difference between Science and technology. (10 marks)
- Describe how the African indigenous Science is important in the teaching of Science in pre-school. (8 marks)
- Justify how ICT as technology can facilitate the teaching of Science. (8 marks)

QUESTION TWO

- a) Justify the importance of Science in the community and society at large. (20 marks)

QUESTION THREE

- a) Analyze the theory of Piaget in the teaching and learning of Science. (10 marks)
- b) Explain the material needed to enhance the understanding of Scientific skills. (10 marks)

QUESTION FOUR

- a) Explain the properties of matter and the states of matter. (10 marks)
- b) Describe the activities for teaching Science in pre-school. (10 marks)

QUESTION FIVE

- a) Examine six processes of Scientific skills in young children. (10 marks)
- b) Analyze the theory of John Dewey in the teaching and learning of Science. (10 marks)