

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF MASTER OF EDUCATION

EDCI 817: BIOLOGY EDUCATION

STREAMS: MED

TIME: 3 HOURS

DAY/DATE: TUESDAY 06/04/2021

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS:

- Answer **THREE** questions
- Do not write anything on the question paper

- (a) Discuss three ways in which knowledge in biology has contributed positively to the welfare of mankind [12 marks]
  - (b) Discuss surrogate motherhood and procurement of abortion as abuses of biological knowledge [9 marks]
- (a) Discuss the following innovations in the development of biology curriculum in Kenya. [10 marks]
    - (i) UNESCO pilot project (1967)
    - (ii) School science project
  - (b) Explain five objectives of teaching biology in secondary schools in Kenya [5 marks]
  - (c) Explain the rationale for improvisation in biology teaching [5 marks]
- (a) Explain the inquiry based approach on teaching and learning biology, highlighting the important guidance the approach adheres to [10 marks]
  - (b) Explain the types of biohazards likely to occur in a biology laboratory. [5 marks]
  - (c) Explain concept mapping as a strategy in teaching biology [5 marks]
- (a) Explain five positive attributes towards science (biology) that the science curriculum seeks to develop in learners [10 marks]
  - (b) Explain the limitations of using textbooks in teaching biology [5 marks]
  - (c) Discuss botanical garden as a facility for teaching biology [5 marks]

