

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

CHUKA/EMBU CAMPUS

EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF EDUCATION

EDCI 801: HISTORY AND PHILOSOPHY OF SCIENCE

STREAMS: M.ED (PART-TIME)

TIME: 3 HOURS

DAY/DATE: TUESDAY 05/08/2025

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS:

- Answer question one and any other two.
- Do not write on the question paper.

QUESTION ONE. (30 MARKS)

- Discuss five reasons for studying philosophy of science (10 marks)
- Using suitable examples, explain five characteristics of science (10 marks)
- Discuss the key aspects of scientific explanations (10marks)

QUESTION TWO. (15 MARKS)

- Discuss Karl poppers philosophy of science which is based on the idea that scientific theories should be falsifiable (10 marks)
- Explain five steps of Karl poppers scientific method (5 marks)

QUESTION THREE. (15 MARKS)

- Discuss five key points about Thomas Kuhns paradigm shift (10 marks)
- Explain the five distinct stages that a scientific discipline goes through according to Thomas Kuhns (5 marks)

QUESTION FOUR (15 MARKS)

- a) Using suitable examples, discuss five curriculum reforms in science education (10 marks)
 - b) Explain five major assumptions of scientific methods (5 marks)
-