

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF MASTER OF EDUCATION SCIENCE

EDCI 819: RECENT DEVELOPMENT IN SCIENCE EDUCATION

STREAMS: MED (SCI)

TIME: 3 HOURS

DAY/DATE: TUESDAY 06/04/2021

8.30 A.M. – 11.30 A.M.

INSTRUCTIONS:

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

1. Compare and contrast John Dewey's and Bruner's constructive view of learning as applied in the process of science [20 marks]
 2. Discuss the two main methods of scientific reasoning that scientist use to advance scientific knowledge [20 marks]
 3. (a) State and explain five categories of misconceptions [10 marks]
(b) Describe the five steps that science teachers could use to help their students overcome their misconceptions in the process of science instruction. [10 marks]
 4. Discuss the factors that a science teacher should consider in selecting methods of teaching science. [20 marks]
-