
CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF DOCTOR OF PHILOSOPHY (SCIENCE EDUCATION)

EDCI 905: INNOVATIVE STRATEGIES IN SCIENCE EDUCATION

STREAMS: PhD

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 18/12/2019

8.30 A.M. – 11.30 A.M.

INSTRUCTIONS:

- **Answer any four questions.**
- **Do not write on the questions paper.**

1. Using illustrations, analyze the significance of advance organizers in the teaching and learning process. (15 marks)
 2. Discuss the challenges of application of creativity in science teaching. (15 marks)
 3. Explain the potential support of ICT to the science teacher and students at secondary school level. (15 marks)
 4. Describe (5) five major cultural inhibitions to learning science in Africa. (15 marks)
 5. Using relevant examples, describe the integrated science process skills in instruction. (15 marks)
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