

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF MASTER OF EDUCATION SCIENCE

EDCI 802: PSYCHOLOGICAL BASIS OF LEARNING SCIENCE

STREAMS: MED (SCI)

TIME: 3 HOURS

DAY/DATE: TUESDAY 06/04/2021

2.30 P.M. – 5.30 P.M.

**INSTRUCTIONS:**

- Answer question ONE and any other TWO questions
- Do not write anything on the question paper

1. (a) Discuss the implications of cognitive theories of learning to the development of science teaching. [10 marks]
  - (b) Describe the application of the tenets of the nature of science on practical work in your subject of specialization [10 marks]
  - (c) Explain the implications of use of expository methods in the teaching of science [10 marks]
  2. Discuss how various aspects of social interactionism in education institutions influence science teaching and learning. [15 marks]
  3. Explain the specific application of each of the five phases of concept development and conceptual change as used in constructivist teaching scheme. [15 marks]
  4. Describe the key steps of creative process as used in science teaching. [15 marks]
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