CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF MASTERS OF SCIENCE IN EDUCATION

EDCI 802: PSYCHOLOGICAL BASIS OF LEARNING SCIENCE

STREAMS: MSC (CHEM) PT

TIME: 3 HOURS

8.30 AM – 11.30 AM

DAY/DATE: TUESDAY 03/12/2019 INSTRUCTIONS:

Answer Question One and any other Two Questions

1. (a) Identify any five basic scientific process skills and describe teaching and learning activities that you would design to help learners acquire these skills.

[10 marks]

(b) Discuss the implications of Piagetian developmental theory of learning to teaching and learning process. [10]

marks]

(c) Critically analyse the implications using expository methods in science classrooms. [10

marks]

- 2. Cognitive psychologists toward the use of cognitive strategies as a way of improving learning in science. Using illustrative examples from your teaching subject, discuss the use of any three forms of cognitive strategies. [15 marks]
- 3. Science instructions should attempt to portray the nature of science discipline. Discuss the application of the tenets of nature of science in laboratory practical work. [15 marks]
- 4. Most science classrooms are said to limit creativity due to restricted objectives and practical procedures. As a teacher with keen interest in developing learner creativity, describe the steps you would take to develop creative process in a class. [15 marks]

EDCI 802