

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE  
OF BACHELOR OF EDUCATION (ARTS)

EDCI 342: METHODS OF TEACHING CHEMISTRY

STREAMS: BED (ARTS)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 15/04/2020

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

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

- Q1. (a) Describe any five scientific attitudes that a learner should develop during chemistry learning. [5 marks]
- (b) Explain the planning process for chemistry teaching [5 marks]
- (c) Describe five types of safety equipment found in the laboratory [5 marks]
- (d) Give five reasons why chemistry teachers prefer use of short answer questions instead of essay questions during testing at secondary school level [5 marks]
- (e) With specific examples from secondary school chemistry teaching, discuss factors that should be considered when choosing a method of teaching. [10 marks]
2. (a) Explain the importance of practical work in chemistry teaching [10 marks]
- (b) Discuss the activities a teacher is expected to perform when carrying out demonstration for a form three lesson on “preparation of chlorine gas” [10 marks]

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3. (a) With specific examples from chemistry teaching, describe five different ways in which a teacher can motivate learners during the learning of chemistry.[10

marks]

(b) Describe the characteristics of appropriate Heuristic methods of teaching chemistry in secondary school. [10

marks]

4. (a) Explain with specific reasons why it is important for a chemistry teacher to improvise resources for teaching & learning [10

marks]

(b) Describe five characteristics of a good atomic model [10 marks]

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