

CHUKA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

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

EDCI 331B: CHEMISTRY SUBJECT METHODS

STREAMS:BED (SCI)

TIME: 2 HOURS

DAY/DATE: TUESDAY 17/04/2018

2.30 P.M – 4.30 P.M

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**INSTRUCTION:**

- **Answer question one and any other two questions**

1. (a) Describe the meaning of the following terms: [4marks]
  - (i) Chemistry education
  - (ii) Chemistry methodology
  - (iii) Schemes of work
  - (iv) Lesson plan

(b) Explain reasons for slow development of chemistry before 1800 A.D [10marks]

(c) One of the major objectives of teaching chemistry in Kenya is to “acquire adequate knowledge for further education and training “. Elaborate on this statement. [5marks]

(d) State characteristics of chemistry objectives. [5marks]

(e) Explain any three factors to be considered when selecting a good chemistry text book. [6marks]
2. (a) Elaborate on the advantages and disadvantages of behavioral objectives in chemistry. [10marks]
- (b) Describe the characteristics of an effective chemistry instruction. [10marks]

- 3 (a) Identify and explain ways in which a chemistry teacher can improve discussion method while teaching chemistry. [10marks]
- (b) Explain the advantages of project work to chemistry students. [10marks]
4. (a) Describe the factors to be considered when making a chemistry schemes of work. [10marks]
- (b) Explain the main components of a lesson plan. [10marks]
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