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CHUKA



UNIVERSITY

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**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF EDUCATION**

**EDCI 816: CHEMISTRY EDUCATION**

**STREAMS:**

**TIME: 3 HOURS**

**DAY/DATE: WEDNESDAY 4/12/2019**

**8.30 A.M – 11.30 A.M**

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**INSTRUCTIONS**

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

1. (a) Justify the inclusion of chemistry in secondary school curriculum in reference to its relevance in the society. [15 marks]  
(b) Describe three different ways of organizing laboratory work and use examples to illustrate the strengths and limitation of each design. [15 marks]
  2. Discuss five factors associated with the quality of teaching and learning of chemistry at secondary school level in Kenya. [15 marks]
  3. Describe the role of the teacher in facilitating procedures for class practical work with active learner participation and high level of interaction. [15 marks]
  4. Atomic models are common resources used in chemistry teaching at all levels; Describe
    - (a) The three common types of atomic models and the appropriate levels of learning where they can be used. [6 marks]
    - (b) Specific topic areas in chemistry teaching syllabus at secondary school level where atomic models can be used. [9 marks]
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