

CHUKA



UNIVERSITY

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**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF POSTGRADUATE DIPLOMA IN  
EDUCATION**

**PGDE 753: METHODS OF TEACHING CHEMISTRY**

**STREAMS: PART TIME**

**TIME: 3 HOURS**

**DAY/DATE: THURSDAY 6/12/2018**

**11.30 A.M. – 2.30 P.M**

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**INSTRUCTIONS**

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

**Do not write on the question paper**

1. (a) Describe any five general objectives of teaching chemistry in schools. [10 marks]  
(b) Explain four ways in which a chemistry teacher can teach effectively. [8 marks]  
(c) Briefly explain the importance of teaching aids in classroom. [6 marks]  
(d) What is chemistry methodology? [1 mark]
2. (a) Using of relevant examples, explain the following objectives in the cognitive domain.  
[10 marks]  
(i) Knowledge  
(ii) Comprehension  
(iii) Application  
(iv) Analyzing  
(v) Synthesis  
(b) State the advantages of behavioral objectives in chemistry instruction/learning.  
[5 marks]
3. (a) Identify characteristics of an effective chemistry teacher. [6 marks]

- (b) You are required to develop a schemes of work to teach chemistry for one week by your supervisor during teaching practice. Outline the main components you would consider. [9 marks]
4. (a) Lesson plan is very useful document to a chemistry teacher. Discuss the main components when making lesson plan for chemistry instruction. [6 marks]
- (b) Outline ways in which a chemistry teacher can ensure effective instruction using demonstration method. [9 marks]
5. (a) State reasons for show development of chemistry before 1800 A.D . [5 marks]
- (b) Explain ways in which class experiments can be carried out. [6 marks]
- (c) Discuss four ways a chemistry teacher can ensure proper use and management of a chemistry laboratory. [4 marks]
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