

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION
(SCIENCE)****EDCI 342: CHEMISTRY SUBJECT METHODS****STREAMS:****TIME: 2 HOURS****DAY/DATE: WEDNESDAY 12/04/2023****11.30 A.M – 1.30 P.M**

INSTRUCTIONS:**Answer question one and any other two questions****Do not write on the question paper**

1. (a) Explain the importance of using practical work in teaching chemistry.

(b) Using specific examples from chemistry teaching at secondary school level, discuss the importance of chemistry to the society. [10 marks]

(c) Explain the functions of the teacher in the teaching of a chemistry lesson on 'characteristics of acids' using class practical work. [10 marks]
2. (a) Explain the five key design considerations made when developing a chemistry laboratory. [10 marks]

(b) Describe the use of any five type of safety equipment's found in the chemistry laboratory. [10 marks]
3. (a) Using specific examples from chemistry teaching, discuss five factors that influence the choice of teaching method. [10 marks]

(b) Describe any five types of tests you would use to determine achievement in chemistry learning. [10 marks]
4. (a) Describe the characteristics of a good model for teaching structure and bonding in chemistry. [10 marks]

(b) Discuss the advantages of improvising resources for teaching of chemistry over acquiring the commercially available resources. [10 marks]
