



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER**

**SCHOOL OF EDUCATION
BACHELOR OF EDUCATION**

**COURSE CODE: ECI 3118
COURSE TITLE: SUBJECT METHODS
IN
CHEMISTRY**

**DATE: 17TH APRIL, 2019
10.30AM**

TIME: 08.30 -

INSTRUCTIONS TO CANDIDATES

- i) Answer Question ONE and any other two questions**
- ii) Do not write on the question paper**

*This paper consists of **TWO** printed pages. Please turn over.*

QUESTION ONE

- a) Justify the inclusion Chemistry in the secondary school curriculum.
(10 marks)
- b) Teaching and learning of Science is 'dynamic'. Discuss the teaching and learning of Chemistry as a branch of science in the light of this statement
(4 marks)
- c) Explain the instances under which teacher demonstration should be used in Chemistry instruction.
(6 marks)
- d) You have been posted for teaching practice in a school of your choice. Discuss any factors that can influence the choice of a teaching method you will use in teaching a Form One Chemistry class. **(5 marks)**
- e) Discuss the roles of Chemistry in the society
(5marks)

QUESTION TWO

- a) Discuss the basic science process skills used in the teaching and learning of Chemistry in secondary schools
(10 marks)
- b) Explain the domains of instructional objectives for Chemistry teaching giving relevant examples in each case
(10 marks)

QUESTION THREE

- a) A scheme of work is one of the professional documents that a teacher should have when teaching Chemistry. Discuss the importance of this document
(10 marks)
- b) Using the Maasai Mara University format, draw a lesson plan for teaching a lesson topic; 'Chemical properties of Acids' guided by the following objective. Objective: 'By the end of the lesson the learner should be able state simple chemical properties of acids' **(10 marks)**

QUESTION FOUR

- a) (i) Highlight key factors which a secondary school Chemistry teacher must take in consideration in order to carry out a

successful teacher demonstration lesson.

(6 marks)

(ii) Identify FOUR ways in which a Chemistry teacher can involve students in a teacher demonstration lesson

(4 marks)

b) Discuss the benefits of using computers in Chemistry instruction

(10 marks)

QUESTION FIVE

a) Although Class Experiment is a learner-centered method of instruction, the teacher plays a vital role in ensuring that the objectives of the experiment are achieved. Identify any FIVE roles of the teacher in a class experiment

(10 marks)

b) Discuss common Chemistry laboratory features that provides for the safety of its users

(10 marks)

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