



MAASAI MARA UNIVERSITY

SPECIAL/ SUPPLIMENTARY EXAMINATIONS

2020/2021

THIRD YEAR FIRST SEMESTER

**SCHOOL OF EDUCATION
BACHELOR OF EDUCATION**

COURSE CODE: ECI3118

**COURSE TITLE: SPECIAL METHODS IN
CHEMISTRY**

DATE:

TIME:

INSTRUCTIONS TO CANDIDATES

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

Answer Question **ONE** and any other **two** questions

1.
 - a) State and explain THREE main features that should be there in a chemistry laboratory. **(9 Marks)**
 - b) State THREE uses of assessment results in chemistry teaching and learning. **(3 Marks)**
 - c) State FOUR qualities of a good chemistry teacher. **(8 Marks)**
 - d) To ensure safety in the laboratory, safety rules must be observed. Identify any TEN safety rules that must be observed by laboratory users. **(10 Marks)**

2.
 - a) Discuss FOUR factors that a secondary school chemistry teacher should take into consideration when selecting a teaching method for use in chemistry instruction. **(8 Marks)**
Highlight FOUR advantages of project work to the students as a method of teaching chemistry in secondary schools. **(8 Marks)**
 - b) Justify the involvement of learners in experiment work in chemistry in secondary school. **(4 Marks)**

3.
 - a) Every chemistry practical has THREE main parts/phases. Identify these phases. **(6 Marks)**
 - b) (i) Highlight key factors which secondary school chemistry teachers must take into consideration in order to carry out successful teacher demonstration lesson. **(6Marks)**
(ii) Suggest FOUR ways in which a chemistry teacher can involve the students in a teacher demonstration lesson. **(8Marks)**

4.
 - a) Identify a chemistry practical at secondary school level and use it to point out FOUR basic science process skills that may be developed during the practical. **(4Marks)**
 - b) State and explain the THREE domains of objectives for chemistry teaching. **(6Marks)**
 - c) Outline and discuss FIVE objectives of teaching chemistry in Kenya. **(10Marks)**

- 5.

- a) Explain FIVE weaknesses shown by form four students when answering chemistry questions set by Kenya National Examinations Council (KNEC).
(10Marks)
- b) Discuss FOUR types of evaluation used in assessment of chemistry.
(8Marks)
- c) Explain why a marking scheme for a chemistry test should be constructed at the very time when questions for the test are being set.
(2Marks)