



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF EDUCATION
BACHELOR OF EDUCATION ARTS**

COURSE CODE: ECI 3118

**COURSE TITLE: SUBJECT METHODS IN
CHEMISTRY**

DATE: 13TH DECEMBER, 2022

TIME: 1430-1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO questions

QUESTION ONE

- a) Science is a dynamic process .Discuss the characteristics of a dynamic process. (10 mks)
- b) Improvisation in chemistry is important because of the scarcity of materials and teaching resources. Discuss at least **five** content areas /topics in secondary school chemistry where a teacher would go for improvisation. (10 mks)

QUESTION TWO

- a) In the design for a chemistry laboratory safety consideration is very important. Discuss **five** key components of a chemistry laboratory that address safety. (10 mks)
- b) Discuss five advantages of using practical work in the teaching of chemistry. (5 mks)

QUESTION THREE

- a) State and explain **five** circumstances under which a teacher would choose a demonstration in place of a class experiment. (5 mks)
- b) State **three** advantages of using lecture as a method of instruction. In Chemistry. (3 mks)
- c) Discuss at least **seven** scientific process skills that a student gains when project work is used as an approach in learning. (7 mks)

QUESTION FOUR

- a) Chemistry content is loaded with some abstract concepts that students find difficult to understand. Outline at least **five** best practices that a professional teacher can utilize to make Chemistry simpler and easier to conceptualize. (5 mks)
- b) What are the benefits/importance of chemistry to the society and the student? (10 mks)

QUESTION FIVE

- a) Discuss five characteristics of an instructional objective. (5 mks)
- b) Explain the importance of preparing and using a scheme of work in Chemistry. (4 mks)
- c) Give three examples of audio visual aids used in Chemistry and their advantages. (6mks)

///END///