



OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER REGULAR EXAMINATION
FOR THE DEGREE OF BACHELOR OF
EDUCATION (SCIENCE)

COURSE CODE: CIM 322:

COURSE TITLE: CHEMISTRY EDUCATION II

DATE: 11th MARCH, 2021 TIME: 2:00-5:00PM

INSTRUCTION TO CANDIDATES

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THIS PAPER CONSISTS OF THREE PRINTED PAGES PLEASE TURN OVER

CIM 322: CHEMISTRY EDUCATION II

STREAM: BED (Science)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

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

Question One

- a) Describe **TWO** limitations of teacher demonstration to class experiment. (2 Marks)
- b) Highlight **THREE** general objectives of teaching chemistry in secondary schools in Kenya. (3 Marks)
- c) Outline **TWO** benefits of records of work covered in chemistry instruction. (2 Marks)
- d) State **THREE** factors that guide a teacher when selecting teaching /learning resources during preparation of scheme of work. (3 Marks)
- e) Highlight **FOUR** benefits of successful planning in chemistry teaching. (4 Marks)
- f) Discuss **FOUR** indicators of good planning in chemistry teaching. (8 Marks)
- g) Explain **FOUR** components of a well written instructional objective. (8 Marks)

Question Two

- a) Explain **FIVE** factors a chemistry teacher should consider when preparing a scheme of work. (10 Marks)
- b) Explain **FIVE** factors that influence the choice of a teaching method you will use in a Chemistry class. (10 marks)

Question Three

- a) Define inquiry based learning (IBL). (2 Marks)
- b) Describe what inquiry based learning entails. (8 Marks)
- c) Explain five characteristics of an inquiry based lesson. (10 Marks)

Question Four

- 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) Discuss the following types of evaluation as used in teaching and learning of chemistry. (8 Marks)
- i. Formative evaluation
 - ii. Diagnostic evaluation
 - iii. Summative evaluation
- c) Identify two shortcomings of internal assessment in chemistry instruction. (2Marks)

Question Five

- a) Explain the following components as used in a Chemistry lesson plan:
- i. Lesson objectives. (2 Marks)
 - ii. Teaching/learning activities. (2 Marks)
 - iii. Teaching/Learning resources. (2 Marks)
 - iv. Assignments. (2 Marks)
- b) Explain **FIVE** features of a chemistry syllabus. (10 Marks)
- c) State and explain two attitudes learnt in a practical lesson. (2 Marks)
