

CIM322



ALUPE UNIVERSITY
OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS

2025 /2026 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER REGULAR MAIN
EXAMINATION

**FOR THE DEGREE OF BACHELOR OF
EDUCATION SCIENCE**

COURSE CODE: CIM 322

COURSE TITLE: CHEMISTRY METHODS II

DATE: 09/12/2025 TIME: 09:00AM-12:00PM

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

REGULAR – MAIN EXAM

CIM 322 CHEMISTRY METHODS II

STREAM: BED SCIENCE

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO questions.

Do not write on the question paper
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Question one

- a) Outline THREE reasons why a Chemistry teacher should write or modify a scheme of work instead of using commercially available scheme of work for teaching chemistry (3 Marks)
- b) Describe three constructivist instructional methods applicable to Chemistry instruction. (6 Marks)
- c) Outline the key components of a CBC-aligned Chemistry lesson plan. (5 Marks)
- d) Explain two ways teachers can improvise Chemistry teaching resources in resource-limited schools. (4 Marks)
- e) Explain THREE importance of flexible bench laboratory design (6 Marks).
- f) Describe two learner-centered assessment methods suitable to Chemistry instructions. (4 Marks)
- g) Differentiate between Burns and Scalds (2 Marks)

QUESTION TWO (20 marks)

- a) Using illustration explain SIX ways how ICT integration can enhance Chemistry instruction. (12 Marks)
- b) DESCRIBE four conditions that necessitates demonstration in teaching and learning of chemistry. (8 Marks)

QUESTION THREE (20 marks)

- a) Discuss four functions of a worksheet particularly during practical work in chemistry. (8 Marks)
- b) Create a table of specifications for a Chemistry test on "Acids and Bases" covering Knowledge (30%), Comprehension (40%), and Application (30%) cognitive levels. (12 Marks)

QUESTION FOUR (20 marks)

- a) Discuss FIVE importance of formative assessment in Chemistry learning. (10 Marks)

- b) Justify THREE reasons for the use of problem based learning strategy in chemistry instruction. (6 Marks)

- c) Describe two criteria for determining a quality of chemistry test. (4 Marks)
