



OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENTS' AFFAIRS

UNIVERSITY EXAMINATIONS

2018/2019 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER REGULAR EXAMINATION



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

COURSE CODE: CIM 222

COURSE TITLE: CHEMISTRY EDUCATION

DATE: 17TH APRIL, 2019

TIME: 2.00 PM – 5.00 PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

CIM 222: CHEMISTRY EDUCATION

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) Differentiate between chemistry and chemistry education. (4 Marks)
- b) Outline **three** fittings a chemistry laboratory should have. (3Marks)
- c) Briefly explain the implication of Brunner's views on chemistry teaching and learning. (5 Marks)
- d) Describe how you would prepare 0.2 m Sulphuric (VI) acid for 47 students each to receive 60cm³. The concentrated acid has density of 1.18g/cm³ and is 98% pure. (5 Marks)
- e) Explain how you would use ICT to teach a given topic in form three syllabus. (5 Marks)
- f) Outline **five** precautions in the chemistry laboratory. (5 Marks)
- g) Identify **three** chemicals that are hazardous in the laboratory and explain how they should be stored. (3 Marks)

Question Two

Briefly explain **five** features of a well-designed laboratory. (20 Marks)

Question Three

Explain (i) Merits and (ii) Demerits of demonstration method in chemistry teaching. (20 Marks)

Question Four

Prepare an 80 minutes lesson plan showing how you will teach a given form two topic in the laboratory as a chemistry experiment. (20 Marks)

Question Five

Briefly explain **five** science process skills that should be inculcated in the lesson during instructions. (20 Marks)

