UNIVERSITY EXAMINATIONS

FACULTY OF SCIENCE

DEPARTMENT OF NATURAL SCIENCE

END OF SEMESTER FINAL ASSESMENT

SEMESTER 2, 2022/2023

COURSE:

BACHELOR OF SCIENCE WITH EDUCATION

YEAR:

TWO

EXAM:

CHEMISTRY TEACHING METHODS

CODE:

CHEM 2

SEMESTER:

II

DATE:

MAY 15, 2023

TIME:

9:30AM - 12:30PM

DURATION:

3 HOURS

INSTRUCTIONS

- This paper consists of seven questions.
- Attempt any Five (5) Questions
- Begin each question on a fresh sheet of paper.
- All questions carry equal marks.

Question 1

- (a) Briefly explain the following terms used in the newly implemented competence based curriculum (CBC) in Uganda
 - (i) Key learning outcomes
 - (ii) Values
 - (iii) Generic skills
 - (iv) Cross cutting issues
 - (v) Competency
- (b) Design and present a layout for a lesson plan used in teaching competence based curriculum (8 marks)

Question 2

(a) What is a scientific method of teaching?

(2 marks)

- (b) Identify factors which discourage learners from pursuing Chemistry subject (8 marks)
- (c) Suggest how computers, ICT and educational technology are useful in teaching chemistry. (10 marks)

Question 3

- (a) Discuss the issues and considerations followed in designing and constructing a chemistry laboratory (8 marks)
- (b) Explain why chemistry laboratory is crucial in the teaching-learning of chemistry as a subject (7 marks)
- (c) Explain how 2M Sulphuric acid is prepared just enough for 50 students each requiring 100 cm³ to do a volumetric analysis practical. Consider the available stock acid solution to be 96% w/v, Molar mass= 98g and density 1.49 g/cm³. (5 marks)

Question 4

(a) What is meant by the term "test"?

(2 marks)

(b) Explain different types of tests that can be administered to learners

(10 marks)

,	(c) What a teacher should consider while setting a test		
	Question 5	(8 marks)	
	(a) What is meant by the term micro teaching?	(2	
	(b) State the characteristic and	(2marks)	
	(c) Explain how the following skills are developed during microteaching	(8marks)	
	(i) E1.	(5 marks)	
	(;;) Q' 1	(5 marks)	
	Question 6		
	(a) Explain the different types of questions asked by the chemistry teacher	(6 marks)	
	(b) State and explain six common mistakes made by teachers when questioning learners		
		(6 marks)	
	(c) Name five ways of managing of managing pupils questions	(5 marks)	
	(d) State three importance of a good questioning technique	(3 marks)	
	Question 7		
	(a) Explain what is meant by demonstration method	(2 marks)	
	(b) State six factors to consider when carrying out demonstration lesson to the learners		
		(6 marks)	
	(c) Explain the advantages of using a demonstration technique	(7 marks)	
	(d) Identify the categories of learners who may not benefit from a demonstration method		
		(5 marks)	
	TIND		

END