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UNIVERSITY EXAMINATIONS 2022/2023

THIRD YEAR, SECOND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION
FOR DEGREE OF BACHELOR OF EDUCATION SCIENCE

ECT 3352: CHEMISTRY SUBJECT METHODS

DATE: AUGUST 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- Chemistry is considered a science. Describe four reasons why. (8 Marks)
- With the introduction of Competence Based Curriculum, a teacher must focus on helping students develop several competences. As a chemistry teacher, describe a learning experience/scenario on how you would help your grade 10 students acquire the competence of “Problem solving” (10 Marks)
- Discuss any two differences between the 8-4-4 and CBC curriculum that would impact the way you teach Chemistry. Be sure to give appropriate examples. (8 Marks)
- Illustrate how any one of the eight national goals of education are met through the Chemistry syllabus. (4 Marks)

QUESTION TWO (20 MARKS)

- In a classroom situation, the learner is the teacher’s audience. Discuss three characteristics/ factors of a teacher that may pose a challenge to you as chemistry teacher during a demonstration lesson. (12 Marks)

- b) Discuss any two school-based factors that may contribute to poor performance of students in Chemistry (4 Marks)
- c) Explain any two benefits of using demonstration as a method of teaching. (4 Marks)

QUESTION THREE (20 MARKS)

- a) Teachers have a variety of teaching/learning methodologies to choose from. Discuss five factors that you may consider when choosing the method to use (10 Marks)
- b) Evaluate the teaching aids you may use when teaching “Solvay Process” (10 Marks)

QUESTION FOUR (20 MARKS)

- a) Picking a topic in the Chemistry syllabus, illustrate how you would teach using **cooperative learning method**. (8 Marks)
- b) Describe the advantages and disadvantages of using this method in the teaching of your chosen topic (12 Marks)

QUESTION FIVE (20 MARKS)

As a teacher, you are required to prepare and maintain several professional documents in your practice. Among them are the schemes of work, lesson plans, records of work, and progress reports. Using the Secondary School content, develop a 40-minute lesson plan for a form 1 class. (20 Marks)