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University Examinations 2018/2019

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

ECT 3352: CHEMISTRY SUBJECT METHODS

DATE: SEPTEMBER 2019

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions.

QUESTION ONE (30 MARKS)

- a) While teaching in your school, you notice some peculiarities among some of your novice colleagues. **Peter** prefers to use only charts and never models as teaching aids; **Dorothy** does not store chemicals in any order; and **Kim** is not aware of the components of chemistry content in the secondary school syllabus.

As a concerned colleague, what advice would you offer each of them? (15 Marks)

- b) Explain the importance of Records of Work to a teacher (5 Marks)
c) Discuss the importance of micro-teaching to a teacher trainee (6 Marks)
d) Why should a teacher trainee going for teaching practice report before or on the first day of opening school to his/ her school? (4 Marks)

QUESTION TWO (20 MARKS)

Discuss, giving clear examples, five learner-based factors that influence the learning experience of students. (20 Marks)

QUESTION THREE (20 MARKS)

“Chemical families” is a topic in the secondary school syllabus. Write a one-week’s entry in the Schemes of Work and one accompanying lesson plan for this topic. (20 Marks)

QUESTION FOUR (20 MARKS)

Assessment is important in any educational system, and various structures are used for this purpose. Discuss the role of the following chemistry examination papers at KCSE level

- i. Paper I: Short answer questions paper (7 Marks)
- ii. Paper II: Structured questions paper (7 Marks)
- iii. Paper III: Practical paper (6 Marks)

QUESTION FIVE (20 MARKS)

The Kenyan syllabus is based on the “Objectives Model”. Giving examples, explain what this means. Be sure to outline the main philosophy applied. (20 Marks)