



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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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.

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#### 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)