



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF EDUCATION

DEPARTMENT OF COMMUNICATION TECHNOLOGY

SECOND YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN
EDUCATION

ECT0216: TEACHING METHODS-CHEMISTRY

DATE: 2/6/2017

TIME: 2:00 – 4:00 PM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) Explain **how you** would introduce Chemistry to a form One Class so as to Stimulate their interest in the subject. (INCLUDE strategies and resources). (10 marks)
 - b) Explain the steps in the Constructivist approach to the teaching of Chemistry: You may make reference to a named practical. (12 marks)
 - c) Discuss any **four Values** of Science promoted through Chemistry. (8 marks)
2. Prepare an 80 minute Lesson Plan for a practical lesson on Acids, Bases and Indicators. (20 marks)
3. Discuss how each of the following documents assist the teacher in planning for Chemistry Teaching: (20 marks)
 - i. The Examination Syllabus.
 - ii. The content Syllabus.
 - iii. The Schemes of Work.
 - iv. The Lesson Plan.
4. Explain the significance of each of the following approaches to the teaching of Chemistry:
 - i. The Learning Cycle.
 - ii. The Meta-Cognitive approach.
 - iii. The Process-Skills approach. (20 marks)
5. Write briefly about the skills tested in the following areas of Chemistry Practical:
 - i. Qualitative analysis. (10 marks)
 - ii. Rate of reaction. (4 marks)
 - iii. Volumetric analysis. (6 marks)