



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF EDUCATION

DEPARTMENT OF EARLY CHILDHOOD EDUCATION & EDUCATIONAL
COMMUNICATION & TECHNOLOGY

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF EDUCATION

ECT 305: SUBJECT METHODS CHEMISTRY

DATE:

TIME:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE

- a) Discuss **five (5)** instances when teacher demonstration would be the most appropriate method. (5 marks)
- b) Highlight the limitations of lecture method in the teaching of chemistry (6 marks)
- c) By use of relevant examples in chemistry subject, differentiate between deductive and inductive approaches to teaching. (4 marks)
- d) Describe **five (5)** main aims of teaching chemistry at secondary school level. (5 marks)
- e) Discuss **five (5)** advantages using practical work in chemistry teaching. (5 Marks)
- f) Describe **five (5)** basic fittings in a chemistry laboratory (5 marks)

QUESTION TWO

- a) Discuss **five (5)** factors that influence choice of teaching method (10 marks)
- b) Describe the role of question answer method in chemistry teaching (10 marks)

QUESTION THREE

- a) Describe **five (5)** considerations a teacher needs to put in place when writing a chemistry scheme of work. (10 marks)
- b) Explain the value of the following in chemistry teaching.
 - i) Schemes of work and
 - ii) Lesson plan (10 marks)

QUESTION FOUR

- a) Discuss different types of assessment tests used to determine learner achievement in chemistry (10 marks)
- b) Discuss the limitations of using resources in chemistry teaching (10 marks)

QUESTION FIVE

- a) Explain the importance of instructional objectives in the teaching of chemistry. (8 Marks)
- b) Instructional objectives are stated to satisfy the cognitive level of the Bloom Taxonomy. Explain the 6 levels of the cognitive level giving an example of a concrete instructional objective in each level. (12 Marks)