

MACHAKOS UNIVERSITY
SCHOOL OF EDUCATION
DEPARTMENT OF EDUCATIONAL COMMUNICATION AND TECHNOLOGY &
ECE
BACHELOR IN EDUCATION
ECT 305: SUBJECT METHODS CHEMISTRY

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

QUESTION TWO

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

QUESTION THREE

- a) Describe **five (5)** considerations a teacher needs to put in place when writing a chemistry scheme of work. (10mks)
- 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
10mks
- b) Discuss the limitations of using resources in chemistry teaching
10mks

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)