



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATION COMMUNICATION AND TECHNOLOGY

SECOND SEMESTER EXAMINATION FOR DIPLOMA IN EDUCATION

ECT 0209: SUBJECT METHODS BIOLOGY

Date: 4/8/2016

Time: 2:00 – 4:00 PM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE

- Learning of school biology assists learners in their making adjustments necessary for their everyday life. Describe four ways in which this is attained. (4 marks)
- Discuss five instances when teacher demonstration would be the most appropriate method for teaching Biology. (5 marks)
- With appropriate examples, describe four main areas in which biology has provided great contributions to the society. (8 marks)
- Describe five ways in which discussion method should be organized in order to attain the objectives of a biology lesson. (5 marks)
- Give four advantages of giving short answer questions over essay questions in Biology. (4 marks)
- Discuss five limitations of using practical work in the teaching of biology. (4 marks)

QUESTION TWO

- a) Describe five instructional functions of question answer method in the teaching of biology. (5 marks)
- b) Describe the organizational stages of a practical lesson in biology. (10 marks)
- c) Discuss the limitations of lecture as a method of teaching biology (5 marks)

QUESTION THREE

- a) Explain the importance of developing instructional objectives for the teaching of biology. (10 marks)
- b) Describe with examples five ways in which a teacher can sustain classroom attention during the teaching of biology. (10 marks)

QUESTION FOUR

- a) Discuss six advantages of improvising materials for teaching biology. (10 marks)
- b) Describe the basic characteristics of an appropriate model for teaching a biology lesson (10 marks)

QUESTION FIVE

- a) Assume you are to teach the topic “Diffusion”. Discuss the steps you would follow in planning and implementing a teacher demonstration on this topic. (10 marks)
- b) Write a lesson plan for the lesson. (10 marks)