



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2014/2015

DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION

ECT 304: SUBJECT METHODS - BIOLOGY

DATE: Sunday 3rd May 2015

TIME: 11.00a.m -1.00p.m

INSTRUCTIONS

Answer Question (1) and any other TWO questions.

1. a) State any two purposes for teaching Biology to secondary school students.

[4marks]

- b) List two 8-4-4 Biology course objectives. [2marks]

- c) Explain two advantages of using field trips instead of demonstration methods in teaching Biology.

[6marks]

- d) Explain how you could use two specific resources to achieve a specific instructional objective.

[12marks]

- e) Why is it useful to prepare a Table of Specifications for a classroom test?

[6marks]

2. Justify the use of technology in teaching and learning of secondary school Biology.

[20marks]

3. You are assigned to teach the Topic ECOLOGY to Form III students.

- a) State an appropriate 8-4-4 Biology course objective. [2marks]
- b) Write two relevant instructional objectives. [2marks]
- c) Outline learning activities that you could engage students in to achieve the stated instructional objectives.

[10marks]

- d) Explain a way of assessing for achievement of the instructional objectives.

[6marks]

4. Critically discuss the contribution of Biology to the welfare of humankind. [20marks]

5. a) Write a STRUCTURED test item on any topic from 2002 Biology syllabus.

[4marks]

- b) Explain THREE advantages of Essay questions over Objective test items.

[6marks]

- c) Outline key advantages of Biology curriculum review since 1963 with respect to teaching and testing at the secondary school level.

[10marks]