



**MERU UNIVERSITY COLLEGE
OF SCIENCE & TECHNOLOGY**

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University Examinations 2010/2011

SECOND YEAR, SECOND SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURAL
EDUCATION AND EXTENSION

EDU 0283: SPECIAL METHODS OF TEACHING BIOLOGY

DATE: APRIL 2011

TIME: 1½ HOURS

INSTRUCTIONS: Answer Question *one* which is Compulsory and any other *two* questions

QUESTION ONE – (30 MARKS)

- (a) Define science education. (1 Mark)
- (b) List four essentials of a lesson plan. (4 Marks)
- (c) Distinguish expository and heuristic strategy of teaching (2 Marks)
- (d) Describe factors a teacher has to consider in choosing the method of teaching. (4 Marks)
- (e) What are some of the problems a biology teacher may encounter in the management of students project. (4 Marks)
- (f) State and explain two main factors to consider when preparing a scheme of work. (2 Marks)
- (g) What are the factors that a biology teacher should consider when selecting a chart for teaching purpose. (3 Marks)
- (h) Identify and explain the main purpose of assessment in biology education. (4 Marks)
- (i) State two advantages and limitations of essay test. (4 Marks)
- (j) Mention two advantages of using field trips in teaching biology. (2 Marks)

QUESTION TWO – (15 MARKS)

Critically examine the merits, limitations and suggestions for improving lecture method.
(15 Marks)

QUESTION THREE – (15 MARKS)

Outline the goals and objectives of teaching biology in Kenyan secondary schools.
(15 Marks)

QUESTION FOUR – (15 MARKS)

Discuss the purpose of three main professional documents prepared and kept by a biology teacher.
(15 Marks)

QUESTION FIVE – (15 MARKS)

Class practical require good organization and supervision. Discuss. (15 Marks)