



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2018/2019

THIRD YEAR, SECOND SEMESTER SPECIAL / SUPPLEMENTARY EXAMINATION  
FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

### ECT 3351: BIOLOGY SUBJECT METHODS

DATE: SEPTEMBER 2019

TIME: 2 HOURS

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**INSTRUCTIONS:** Answer question *one* and any other *two* questions.

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#### QUESTION ONE (30 MARKS)

- a) Explain four positive contributions of Biology to human welfare. (8 Marks)
- b) Describe two cognitive skills and two psychomotor skills that learners would acquire through a named topic in the 8-4-4 form 2 Biology syllabus. (8 Marks)
- c) How do you build up a Biological museum in a school. (10 Marks)
- d) Explain the value of another facility for teaching Biological besides a Biological museum. (4 Marks)

#### QUESTION TWO (20 MARKS)

- a) Explain the characteristics of an effective teaching/learning resource in Biology. (10 Marks)
- b) Discuss the advantages of essay type question in Biology. (10 Marks)

#### QUESTION THREE (20 MARKS)

- a) Explain five factors to consider in evaluation of the Biology subject. (10 Marks)
- b) Highlight the steps taken in planning a field trip. (10 Marks)

**QUESTION FOUR (20 MARKS)**

- a) Enumerate the disadvantages of expository approach in the teaching of Biology. (10 Marks)
- b) Discuss five examples of biohazards. (10 Marks)

**QUESTION FIVE (20 MARKS)**

Pick a topic of your choice from the Secondary Biology Syllabus, prepare a one week's scheme of work and derive a 40 minutes lesson plan from the said topic. (20 Marks)