



# 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 EDUCATION SCIENCE

### ECT 3353: PHYSICS SUBJECT METHOD

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 the main reasons of motivating learners during a physics lesson. (5 Marks)
- b) Physics projects play a critical role in enhancing learning of physics practically, explain. (7 Marks)
- c) Describe the factual meaning of the following terms/phrases as applied in physics.
  - (i) Examination (3 Marks)
  - (ii) Scoring of scripts. (3 Marks)
  - (iii) Reinforcement of learners (3 Marks)
- d) During the formulation of examinations, the teachers is bound to follow blooms taxonomy. Explain (9 Marks)

#### QUESTION TWO (20 MARKS)

- a) As a physics teacher, draw a theory lesson plan for 40 minutes to teach a sub-topic – Hooker’s law. (10 Marks)
- b) Discuss with suitable examples the importance of using schemes of work for teaching at Secondary School. (10 Marks)

**QUESTION THREE (20 MARKS)**

Discuss the main teaching resources found in a physics laboratory in a Secondary School.

(20 Marks)

**QUESTION FOUR (20 MARKS)**

Models are perceived as good teaching resource in physics, discuss the main qualities of a good physics model.

(20 Marks)

**QUESTION FIVE (20 MARKS)**

Microteaching is a good step for beginner teachers. State and explain main characteristics of microteaching

(20 Marks)