

MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER**

**SCHOOL OF EDUCATION**

**BACHELOR OF EDUCATION (SCIENCE)**

**COURSE CODE: CIM 323**

**COURSE TITLE: PHYSICS TEACHING METHODS**

**DATE: 24TH JANUARY, 2017 TIME: 11.00AM – 1.00 P.M.**

**INSTRUCTIONS TO CANDIDATES**

Answer Question **ONE** and any other **TWO**.

*This paper consists of 2 printed pages. Please turn over.*

**Question ONE [30 Marks]**

1. Explain how you can lead a learner to understand the following terminologies in physics.
2. Fact **(2 marks)**
3. Concept **(2 marks)**
4. Principle **(2 marks)**
5. Theory **(2 marks)**

(b) What is a laboratory skill? Explain any **two** skills that are enhanced by learning physics**. [3 Marks]**

(c) During your physics instruction, a student by bad luck touches a live wire in the laboratory. Briefly explain the **steps** you may undertake to help the student. **[3 Marks]**

## In selecting the lesson objectives, state four points the teacher should keep mind. [4 Marks]

1. What is testing as used in physics instruction? Explain **three** reasons why examinations test on the cognitive, psychomotor and affective domain. **[4 Marks]**

## Highlight three main qualities of a good model for teaching physics.

## [3Marks]

1. Prepare a **30 lesson plan** for 30 minutes. **[5Marks]**

**QUESTION TWO [20 Marks]**

1. What is motivation? Why is it necessary in physics learning? **[5 Marks]**
2. Discuss the **five** strategies for motivating students to learn physics **[15 Marks]**

**QUESTION THREE**

1. Outline some questions you may tend to answer as you plan to introduce a lesson. **[10 Marks]**
2. Explain **five** ways of generating knowledge in physics. **[10 Marks]**

**QUESTION FOUR**

* 1. State forms of questions commonly set in a secondary physics examination.

**[4 Marks]**

* 1. Highlight **fiv**e qualities of a good end of year physics examination.               **[10 Marks]**

1. Explain the point to consider when preparing a marking scheme for a physics exam. **[6 Marks]**

**QUESTION FIVE**

1. What is a lesson plan? How does it facilitate your teaching of physics.

**[5 Marks]**

1. Prepare a **40-minute lesson** plan from a form one topic ‘*pressure*’ that may be used in teaching. **[15 Marks]**

**END**