



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF EDUCATION
BACHELOR OF EDUCATION**

COURSE CODE: CIM 323

COURSE TITLE: SUBJECT METHODS IN PHYSICS

DATE: 25/4/2018

TIME: 1100-1300HRS

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO

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

QUESTION ONE

- a) Explain three examples to illustrate how Physics and Technology are inter-related **(6marks)**
- b) Outline the abilities that class experiments enhance in the learners of Physics **(6marks)**
- c) Explain the experiment procedure in the teaching of Boyle's law **(10marks)**
- d) Explain any Four sources of hazards in a physics laboratory **(4marks)**
- e) Discuss the four rules for safe use of a physics laboratory **(6marks)**

QUESTION TWO

- a) One of the objectives of secondary school physics is to help students to develop capacity to " Use the acquired knowledge in the conservation and management of the environment." Explain using specific examples how this objective is achieved **(10 marks)**
- b) Explain how the Physics curriculum helps students to appreciate and promoting health in society. **(10marks)**

QUESTION THREE

- a) Explain any of the three components of a curriculum review **(6marks)**
- b) Describe the external pressures that led to the review of Physics curriculum in Kenya immediately after attaining independence **(6marks)**
- c). Discuss the reasons that made the School Science Project (SSP) curriculum not to be scaled up to all secondary schools in Kenya **(8marks)**

QUESTION FOUR

- a) Outline the Bloom's taxonomy of the cognitive domain **(6marks)**
- b) Explain how you would facilitate learners of Physics in acquiring any three of the High-order -cognitive abilities in the bloom's taxonomy. **(14marks)**

QUESTION FIVE

- a) Explain three ways in which a lesson plan is important to the Physics teacher **(6marks)**
- b) Draw a 40-minutes lesson plan on a topic area of your choice **(14marks)**

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