



MAASAI MARA UNIVERSITY

SPECIAL UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR SUPPLEMENTARIES/SPECIAL EXAMINATIONS

SCHOOL OF EDUCATION BACHELOR OF EDUCATION

COURSE CODE: CIM 323

COURSE TITLE: PHYSICS TEACHING METHODS

DATE: 24 TH APRIL, 2019

TIME: 11.00AM-1.00PM

INSTRUCTIONS TO CANDIDATES

- Answer Question **ONE** and any other **TWO**.
- Use of sketch diagrams where necessary and brief illustrations are encouraged.
- Read the instructions on the answer booklet keenly and adhere to them.

QUESTION ONE [30 MARKS]

- a. Explain briefly how physics learning facilitates mathematical skills (4 marks)
- b. Explain three circumstances under which teacher demonstration is preferred in Physics teaching. (6 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)
- d. State three reasons why proper storage is necessary in a physics laboratory. (3 marks)
- e. Identify six items in a physics first aid box and state the use of each. (3 marks)
- f. Explain FIVE components of a good physics instructional objective. (5 marks)
- g. Highlight three main qualities of a good model for teaching physics. (3 marks)
- h. State THREE points to consider when writing physics test marking scheme. (3 marks)

QUESTION TWO

[20 Marks]

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

QUESTION THREE [20 Marks]

- a) Discuss how 'computer Aided physics' may be used to facilitate physics learning. (10 marks).
- b) Discuss five factors you may consider when selecting a method of instruction in physics. (10 marks)

QUESTION FOUR [20 Marks]

Highlight five qualities of a good end of year physics examination. (20 marks)

QUESTION FIVE [20 Marks]

- a) Prepare a 40-minute lesson plan from form one topic '*methods of heat transfer*' that may be used in teaching. (10 marks).
- b) Discuss the five strategies for motivating students to learn physics. [10 marks]

END