



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER

MAIN EXAMINATION

**FOR THE DEGREE OF POST GRADUATE DIPLOMA IN
EDUCATION**

COURSE CODE: ESM 726 E

COURSE TITLE: PHYSICS EDUCATION

DATE: 7/10/2021

TIME: 9:00AM - 11:00AM

QUESTION ONE (COMPULSORY) (30 Marks)

- a) Describe **three** reasons for curriculum review in Kenya (6 Marks)
- b) Explain **three** emerging issues that have been incorporated in the revised physics curriculum (6 Marks)
- c) State **four** general objective of the 8-4-4 physics syllabus (4 Marks)
- d) With an illustration, explain how a physics teacher can promote cohesion among students of different ethnic backgrounds in a class (5 Marks)
- e) Identify **five** factors that a teacher considers when choosing a teaching method (5 Marks)
- f) List **four** qualities of a good physics teacher (4 Marks)

QUESTION TWO – (20 Marks)

- a) Define teaching (2 Marks)
- b) Outline the components of teaching (5 Marks)
- c) Describe the ASEI/PDSI approach in the teaching of physics (10 Marks)
- d) Name any **three** approaches of teaching other than the ASEI/PDSI approach (3 Marks)

QUESTION THREE – (20 Marks)

- a). State **five** characteristics of a good project work (5 Marks)
- b). List **five** skills that are assessed in a project (5 Marks)
- c). Explain the importance of school projects in the learning of physics (10 Marks)

QUESTION FOUR – (20 Marks)

- a) Outline **four** ways in which physics field trips help learners (8 Marks)
- b) State **five** considerations that the physics teacher needs to have in mind when planning for a field trip (5 Marks)
- c) Discuss **two** areas that your physics students can visit for field trips. In each case explain a concept that they can learn (7 Marks)

QUESTION FIVE – (20 Marks)

- a) Discuss **five** reasons why physics teachers should prepare a schemes of work (10 Marks)
- b) Prepare a 40 Minutes lesson plan using the Kibabii University Lesson Plan sheet provided (10 Marks)