

CIM 323



ALUPE UNIVERSITY

**OFFICE OF THE DEPUTY VICE CHANCELLOR
ACADEMICS, RESEARCH AND STUDENTS AFFAIRS**

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

THIRD YEAR FIRST SEMESTER REGULAR EXAMINATION

**FOR THE DEGREE OF BACHELOR OF
EDUCATION SCIENCE**

COURSE CODE: CIM 323

COURSE TITLE: PHYSICS EDUCATION II

DATE: 13TH, DECEMBER, 2023.

TIME: 2:00 – 5:00PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

CIM 323
REGULAR – MAIN EXAM
CIM 323: PHYSICS EDUCATION II

STREAM: BED (Science)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. Answer Question **ONE** and any other **TWO** questions.
- ii. Do not write on the question paper.

Question One

- a) Explain any FOUR relevance of a lesson plan in physics instruction. (8 Marks)
- b) Explain THREE reasons for the need of a common physics syllabus in secondary schools. (6 Marks)
- c) Distinguish between a puzzle and a problem. (2 Marks)
- d) Explain any FOUR reasons why a physics teacher should consult more than one text book in preparing for a lesson. (8 Marks)
- e) Explain THREE uses of a table of specification in setting a test. (6 Marks)

Question Two

- a) Explain FOUR experiments that learners can perform on the topic “simple circuits.” (12 Marks)
- b) Explain FOUR advantages of having separate science laboratories in secondary schools. (8 Marks)

Question Three

- a) Construct a ONE week scheme of work on the topic “quantity of heat.” (10 Marks)
- b) From the scheme of work in question 3a) above, prepare a lesson plan for the first lesson. (7 Marks)
- c) Other than a scheme of work and a lesson plan give THREE other professional documents necessary for effective physics instruction. (3 Marks)

Question Four

- a) Explain FOUR limitations of projects as an instructional method. (8 Marks)
- b) It is claimed that sporting activities can be useful in making learners understand some concepts in physics. Explain this fact using any FOUR sporting activities. (12 Marks)

Question Five

- a) Assume you are to teach the topic “uniform circular motion”.
 - i. What TWO apparatus would you improvise. (2 Marks)
 - ii. Explain TWO projects you would ask your learners to engage in. (6 Marks)
- b)
 - i. Construct a structured type question on the topic in (5. a) above. (6 Marks)
 - ii. Explain THREE abilities/skills to be tested in b(i) above. (6 Marks)
