

CIM 223



**ALUPE UNIVERSITY
COLLEGE**
Bastion of Knowledge...

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OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF
EDUCATION

COURSE CODE: CIM 223

COURSE TITLE: PHYSICS EDUCATION I

DATE: 26 – 7 - 2021

TIME: 1.00PM – 4.00PM

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF TWO PRINTED PAGES PLEASE TURN OVER

MAIN EXAMINATION

CIM 223: PHYSICS EDUCATION I

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. Briefly explain the nature of science (4 Marks)
- b. Explain Sir Karl Popper's views on science (8 Marks)
- c. Explain THREE features of a modern physics laboratory (6 marks)
- d. .
 - i. Describe the developmental stages according to Jean Piaget's theory (6 Marks)
 - ii. Explain the relevance of the theory in d (i) above, in physics instruction (6 Marks)

Question Two

- a. Describe the problem solving stages in science (8 Marks)
- b. Explain any SIX African technologies relating to the knowledge of physics (12 Marks)

Question Three

- a. Explain FIVE relevance of Physics knowledge to the general public (10 Marks)
- b. Describe FIVE process skills learners develop when learning physics (10 Marks)

Question Four

- a. Explain any FOUR hazards that may occur in a physics laboratory (8 Marks)
- b. Explain any SIX instructional approaches in physics (12 marks)

Question Five

- a. Explain the FOUR themes in science (8 Marks)
- b. State any FOUR justifications of teaching psychological theories to physics teacher trainees (4 Marks)

- c. Explain any four activities a teacher would possibly do just before a laboratory experiment (8 Marks)