

CIM 721H

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ALUPE UNIVERSITY

OFFICE OF THE DEPUTY VICE CHANCELLOR

ACADEMICS, RESEARCH AND STUDENTS AFFAIRS

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER REGULAR EXAMINATION

**FOR POST-GRADUATE DIPLOMA IN
EDUCATION**

COURSE CODE: CIM 721H

COURSE TITLE: PHYSICS SUBJECT METHODS

DATE: 14th DEC 2022

TIME: 2:00PM-5:00PM

INSTRUCTION TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

CIM 721H
MAIN EXAMINATION

CIM 721H: SPECIAL METHODS IN PHYSICS

STREAM: PGDE

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 Thomas Kuhn's views on science. (4 marks)
- b. Distinguish between science and technology. (2 marks)
- c. Explain FOUR circumstances that can make a teacher opt for demonstration experiments in a Physics lesson. (8 Marks)
- d. Explain THREE importance of improvisation of apparatus in physics instruction. (6 Marks)

Question Two

- a. Explain any FOUR process skills that learners develop when learning Physics. (8 Marks)
- b. Explain the uses of any SIX laboratory apparatus in physics instruction. (12 Marks)

Question Three

- a. State four reasons for preparing a lesson plan in physics instruction. (4 Marks)
- b. Prepare an appropriate lesson plan for teaching the sub-topic "motion-time graphs" in linear motion. (3 marks)
- c. Explain FIVE ways in which science and technology has impacted positively on the society. (10 marks)

Question Four

- a. Explain any FOUR hazards that may occur in the physics laboratory. (8 Marks)
- b. Explain THREE types of laboratory experiments, giving an advantage of each. (12 Marks)

Question Five

- a. With FOUR reasons explain the relevance of field trips in physics instruction. (8 Marks)

b. Describe FIVE activities you would engage your learners when teaching the topic
"turning effect of a force."

(12 Marks)
