ALUPE UNIVERSITY

OFFICE OF THE DEPUTY VICE CHANCELLOR

ACADEMICS, RESEARCH AND STUDENTS AFFAIRS

UNIVERSITY EXAMINATIONS

2025/2026 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR - MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE: **CIM 217**

COURSE TITLE: **TEACHING METJODS IN INTEGRATED SCIENCE**

DATE: **16th December 2025** **TIME:** **9.00am – 12.00am**

INSTRUCTION TO CANDIDATES

- **SEE INSIDE**

THIS PAPER CONSISTS OF 2 PRINTED PAGES **PLEASE TURN OVER**

REGULAR – MAIN EXAM

CIM 217: TEACHING METHODS IN INTEGRATED SCIENCE

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 the concepts
   i. Integrated science (1 Marks)
   ii. Science Process Skills (1 Marks)

b) Describe four characteristics of an effective Integrated Science teacher. (4 Marks)

c) Explain how Piaget's Constructivism learning theory influence the teaching and learning of Integrated Science. (4 marks)

d) Explain two benefits of using technology during integrated science instruction. (2 Marks)

e) Explain two philosophical foundations that influence the teaching of Integrated Science. (6 marks)

f) Explain the following concepts as used in an integrated science lesson plan.
   i. Specific learning outcome (1 Mark)
   ii. Key inquiry question. (1 Mark)
   iii. Learning resources (1 Mark)
   iv. Organization of learning. (1 Mark)

g) Examine four roles of assessment and evaluation in improving the instruction of Integrated Science. (8 Marks)

Question Two

a) Discuss five characteristics of integrated science as an approach to the teaching of science. (10 Marks)

b) Explain five challenges teachers face in implementing Integrated Science in schools, suggesting possible solutions for each. (10 Marks)

Question Three

a) Discuss five rationale for the integration of science disciplines. (10 Marks)

b) For each of the following elements of the 5E instructional model strategy, explain the purposes and activities involved. (10 Marks)

   i. Engage.

ii. Explore
iii. Explain
iv. Elaborate/ Extend
v. Evaluate

Question four.

a) Discuss four benefits of using project-based learning approach in the teaching of integrated science. (8 Marks)

b) Explain six Criteria a teacher should Apply in Selecting Teaching Method for a Topic in integrated science? (12 Marks)

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