



ALUPE UNIVERSITY

OFFICE OF THE DEPUTY PRINCIPAL

ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS
2025 /2026 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER REGULAR MAIN
EXAMINATION

FOR THE DEGREE OF BACHELOR OF
EDUCATION SCIENCE

COURSE CODE: CIM 721(I)
COURSE TITLE: SPECIAL METHODS IN BIOLOGY

DATE: 09/12/2025 TIME: 9:00AM-12:00PM

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

REGULAR – MAIN EXAM

CIM 721 SPECIAL METHODS IN BIOLOGY

STREAM: PGDE

DURATION: 3 Hours

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INSTRUCTIONS TO CANDIDATES

Answer Question **ONE** and any other **TWO** questions.

Do not write on the question paper

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QUESTION ONE (20 marks)

- a) State the meaning of biology education (2 Marks)
- b) Biology is a science. Identify three characteristics of biology to support this statement (3 Marks)
- c) State any three components of a well stated learning outcome in biology (3 Marks)
- d) Describe any four factors to consider by a biology teacher when selection teaching methods and techniques (3 Marks)
- e) Identify any four tools of assessment a biology teacher can use in the CBE system of education (4Marks)
- f) (i) What is Active Learning? (2 Marks)
- (ii) outline three reasons why a biology teacher should use Active Learning? (3 Marks)

QUESTION TWO

- a) COVID-19 Pandemic intensified virtual learning that posed a lot of challenges and opportunities to teachers of science. Identify 5 such challenges of using virtual lessons in biology and how you would overcome each one of the challenges in your biology class. (10 Marks)
- b) identify and explain how as a biology teacher you can utilize any FIVE teaching resources in any given lesson. (10 Marks)

QUESTION THREE

- a) Explain the major steps of The Scientific Method. (8 Marks)

b) what is a theory as applied in biology (2 Marks)

c) Discuss three professional documents a teacher should prepare before teaching (6 Marks)

d) Outline the factors that should be considered when preparing a scheme of work. (4 Marks)

QUESTION FOUR

a) Give four roles of Experiments in teaching of biology. (4 Marks)

b) Discuss the purpose of demonstration as a teaching technique (8 Marks)

c) The Competence-Based Education emphasizes on the use of formative assessment over summative assessment. Discuss four advantages of formative evaluation in

biology (8 Marks)
