



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 321
COURSE TITLE: BIOLOGY METHODS II

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

INSTRUCTIONS TO CANDIDATES

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THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

REGULAR – MAIN EXAM

CIM 321 BIOLOGY METHODS II

STREAM: BED SCIENCE

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO questions.

Do not write on the question paper

QUESTION ONE (30 marks)

- a) What is biology education (2 Marks)
- b) State **four** characteristics that depict biology as a Science (4 Marks)
- c) Outline three components of a well stated learning outcome in biology (3 Marks)
- d) Describe any four factors to consider in the selection of teaching methods and techniques as a teacher of biology. (4 Marks)
- e) Identify any four tools of assessment in the CBE system that a biology teacher can use after a lesson. (4Marks)
- f) State the meaning of the following terms as used in biology: (4 Marks)
- ii) theory
 - iii) scientific law
- g) Name three professional documents a biology teacher should prepare before teaching (3 Marks)
- h) (i) What is Active Learning? (2 Marks)
- (ii) outline four reasons why a biology teacher should use Active Learning? (4 Marks)

QUESTION TWO

- a) 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) Discuss how as a biology teacher you can utilize any FIVE teaching resources in any given lesson. (10 Marks)

QUESTION THREE

- a) Biology as a science utilizes the scientific method in its investigations. Describe

the **FOUR** major steps of The Scientific Method. (8 Marks)

b) Constructivism Theory of learning has educational implications in the teaching of biology.

Discuss the key aspects of Constructivism theory. (8 Marks)

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

QUESTION FOUR

a) Give four reasons why Experimentation should be used in teaching biology. (4 Marks)

b) Explain any four reasons why a biology teacher would choose to use demonstration

as a teaching technique (8 Marks)

c) Discuss the advantages of using formative assessment over summative

assessment in biology (8 Marks)
