

DECEMBER 2023
EBS 311
GENERAL BIOLOGY THEORY III
1 HOUR 30 MINUTES

Candidate's Index Number
Signature:

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
THIRD YEAR, END-OF-SECOND SEMESTER EXAMINATION, DECEMBER 2023

15TH DECEMBER 2023 GENERAL BIOLOGY THEORY III 2:30 PM – 4:00 PM

SECTION B
(40 MARKS)

Answer any TWO questions from this Section.

Please, note that if you answer more than two questions, only the first two will be marked.

1.
 - a. Outline **one** experiment Gregor Mendel carried out to arrive at the Law of segregation. [8 marks]
 - b. Describe the epidermis of the leaf. [6 marks]
 - c. Describe the uterus of a small mammal. [6 marks]

2.
 - a. Describe fragmentation. [6 marks]
 - b. Name the **two** pools in a biogeochemical cycle. [4 marks]
 - c. Outline the activities of nutrition that occur in the buccal cavity of a mammal. [10 marks]

3.
 - a. Discuss **four** examples of the use of energy in a named organism. [8 marks]
 - b. Discuss as far as possible the uses of water. [12 marks]

4.

- a. Distinguish between absorption and assimilation of food. **[8 marks]**
- b. Explain why decomposition occurs faster in a tropical ecosystem than temperate one. **[4 marks]**
- c. Explain how sulphur dioxide may be harmful. **[8 marks]**