

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE
AG122

Department of Animal Science
BSc Agricultural Science Part I Examination
Introduction to Biochemistry

3 HOURS (100 Marks)

INSTRUCTION: Answer any FOUR questions. Each question carries 25 marks

MAR 2023

1.
 - a. Explain the concept of cell compartmentation in cell biology. [10 marks]
 - b. Describe the various forms of isomerism found in bio-molecules. [15 marks]

2.
 - a. Describe the Calvin cycle. [10 marks]
 - b. Compare and contrast DNA and RNA. [15 marks]

3. Discuss the functions of lipids in living organisms. [25 marks]

4. Discuss the functions of proteins in the support of life. [25 marks]

5. Discuss the nomenclature of Fatty Acids. [25 marks]

6.
 - a. Explain the process of Gluconeogenesis. [15 marks]
 - b. Compare and contrast Gluconeogenesis and Glycolysis. [10 marks]

End of Paper