

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**

1.
 - a. Explain, with the aid of diagrams, the structure and functions of the following,
 - i. Cell wall. [5 marks]
 - ii. Chloroplast. [5 marks]
 - b. Explain the benefits of cell compartmentation to cell metabolism. [15 marks]
2. Discuss the essential characteristics of water that makes it the medium of life. [25 marks]
3.
 - a) Explain why fats are considered as high energy compounds. [5 marks]
 - b) Discuss the biosynthesis of saturated fatty acids. [20 marks]
4. Discuss factors that affecting enzyme activity. [25 marks]
5. Discuss the classification of carbohydrates. [25 marks]
6. Discuss the uses of proteins and amino acids. [25 marks]

END OF PAPER