

BACHELOR OF VOCATION
Medical Laboratory Technology
Subject: Medical Biochemistry – Part I
Subject Code: MLT-S107
Semester: First
January 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number											

SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. What are the main functional groups present in Carbohydrates?
- B. What does protein structure depend on?
- C. Which protein is responsible for muscle contraction?
- D. What are the key elements of amino acids?
- E. Explain what is metabolism?
- F. Briefly explain the glycolysis process?
- G. Define Decarboxylation?
- H. What are anticoagulants?
- I. Which organ is involved in lipid metabolism?
- J. How is lipid absorbed?

SECTION -B (ESSAY TYPE QUESTIONS)

(5x5=25 Marks)

1. Why are carbohydrates generally optically active? Is a diet consisting mainly of rice an adequate diet? Why or why not?
2. Discuss the regulation of Glycolysis. Give a brief account of Glycolysis mentioning the steps and the energy yield per molecule of glucose.
3. Describe the role of bile salts in the digestion and absorption of lipids.
4. What does a protein in its native conformation look like? Explain.
5. Explain the formation of ammonia in a body?
6. Explain what is lipid metabolism? What role does liver have in lipid metabolism?
7. What is citric acid cycle. Explain in detail.
8. What is urea cycle? Give the reactions of urea cycle. Explain the significance of urea cycle.

==END OF PAPER==