

BACHELOR OF VOCATION
Medical Laboratory Technology
Subject: Medical Biochemistry-I
Subject Code: LSH502
Semester: First
February 2022
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

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

- A What are Ketone bodies?
- B Define Gout
- C What is HDL?
- D Vitamin C
- E What are ATP molecules
- F Isoenzymes
- G A/G Ratio
- H Which of the following is an Essential Fatty Acid?
a) Linolenic acid b) Arachidonic acid
c) Oleic acid d) Palmitic acid
- I Which of the following is not a likely cause of Fatty liver:
a) Obesity
b) Starvation
c) Pregnancy
d) Diabetes Mellitus
- J Causes of Hematuria

SECTION –B (ESSAY TYPE QUESTIONS)
(5 x 5 = 25 Marks)

- Q1 Explain in detail about the Lipid Profile tests
- Q2 Enumerate in detail the importance and function of simple, compound and derived lipids.
- Q3 Explain the structure and function of DNA and RNA
- Q4 Explain in detail the functions and disease associated with various Vitamin deficiencies
- Q5 What are Hyperglycemia and Hypoglycemia? Elaborate their functions and describe the complications of Diabetes Mellitus.
- Q6 Write the reactions of TCA cycle along with energetics. Draw a labelled diagram
- Q7 Explain in detail the principle, application and maintenance of Blood chemistry analyzer
- Q8 Explain the functions and biological importance of minerals Sodium and Pottasium.

*****END OF PAPER*****