

2112H022

**BACHELOR OF VOCATION**  
**Medical Laboratory Technology**  
**Subject: Diagnostic Biochemistry-I**  
**Subject Code: MLT603**  
**Semester: Third**  
**December 2021**  
**Theory (External): 35 Marks**  
**Time: 03 Hours**

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**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answers type in nature. Attempt any 5 questions. Each question carries 1 mark.
3. Section B comprises 8 essay type questions. Attempt any 5 questions. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything in 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)**  
(10 x 1 = 10 Marks)

- A Significance of Lipid Profile Test
- B Gastric secretions
- C Urea clearance
- D SGOT and SGPT
- E Hay's test
- F Jaundice and its types
- G Glomerular filtration rate
- H Define:
  - a) Bile Pigments
  - b) Bile Salts
- I Examination of Renal Calculi
- J Monitoring Heart Disease

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

- Q1 What are the methods of bile salt, bile pigment and urobilinogen estimation?
- Q2 What is Jaundice? Describe types of Jaundice. What are the various parameters to determine Jaundice?
- Q3 Write in detail about determination of Kidney Function Test (KFT) with their normal reference parameters.
- Q4 What are Gastric Secretions? How do you conduct the physical and chemical analysis of Gastric Secretions?
- Q5 Describe in detail about the arterial blood gas analysis and its interpretation of acid-base status.
- Q6 Write a note on various types of viral hepatitis.
- Q7 What is myocardial infarction? What are various biochemical markers of heart diseases and their reference parameters?
- Q8 What is hemoglobin degradation? Write a note on its process and by-products.

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