



RAN-2003000205020073

T.Y.B.Sc (Sem. - V) Examination October - 2025

MLT:13 - Clinical Biochemistry and Enzymology

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) All questions are compulsory. (3) Draw labeled diagrams wherever necessary	Seat No.: <table border="1" style="width: 100%;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> Student's Signature						

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|-------------|---|-----------|
| Q. 1 | Answer in Short: (Any Eight) | 08 |
| | <ol style="list-style-type: none"> 1. What is Glycogenolysis? 2. Give two pathological variations of serum cholesterol. 3. Give normal range of albumin & globulin. 4. Enlist enzymes in heart disease. 5. Name two methods for detection of glycosylated hemoglobin. 6. Which are the classes of lipoproteins? 7. Give clinical significances of Bence Jones protein. 8. Define isoenzyme. 9. What is A:G ratio? Give its normal range. | |
| Q. 2 | Write short note: (Any Two) | 14 |
| | <ol style="list-style-type: none"> 1. Explain role of insulin and glucagon in blood sugar regulation. 2. Enlist plasma lipids. Explain separation of plasma lipids in detail. 3. Explain clinical significances of total protein. | |
| Q. 3 | Write short note: (Any Two) | 14 |
| | <ol style="list-style-type: none"> 1. Enlist risk factors of atherosclerosis. Explain pathogenesis of atherosclerosis. 2. Explain electrophoretic pattern of plasma protein fractions in health and disease. 3. Explain clinical importance of LDH. | |
| Q. 4 | Write short note on: (Any Two) | 14 |
| | <ol style="list-style-type: none"> 1. IDDM v/s NIDDM 2. Metabolism of LDL 3. Serum enzymes in liver disease | |