

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0921]

**SEPTEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 1251

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR (2011-2012 Regulation - From 2013-2014 onwards)
PAPER I – GENERAL BIOCHEMISTRY, MEDICAL LABORATORY
TECHNOLOGY
*Q.P. Code : 281251***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the mechanism of oxidation of glucose. Add a note on its regulation.
2. Explain in detail about sources, RDA, absorption, functions and deficiency manifestations of Iron.

II. Write notes on:

(10 x 6 = 60)

1. Types of RNA.
2. Polymerase chain reaction.
3. Explain the safety measures in a laboratory.
4. Competitive inhibition of enzyme activities.
5. Metabolic functions of vitamin C.
6. a) Hypernatremia
b) Hypokalemia
7. Classify Diabetes Mellitus. Add a note on its complications.
8. Automation of analytical processes.
9. Flame emission Spectrophotometry.
10. External quality assessment.
