

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

**[AHS 0522]**

**MAY 2022**

**Sub. Code: 1251**

**M.Sc. MEDICAL LABORATORY TECHNOLOGY**

**FIRST YEAR**

**(Candidates admitted from 2011-2012 & 2013-2014 onwards - Paper I)**

**(Candidates admitted from 2020-2021 onwards - Paper II)**

**PAPER I & II – 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. Sources, biochemical role, RDA and deficiency manifestations of vitamin D.
2. Quality control and quality assurance methods in biochemistry laboratory.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Factors affecting enzyme activity.
2. Iron metabolism.
3. Centrifugation.
4. Turbidimetry.
5. Synthesis and breakdown of ketone bodies.
6. Recombinant DNA technology.
7. Structure of cell membrane.
8. Urea cycle and its regulation.
9. Gluconeogenesis and its regulation.
10. Pre analytical variables.

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