

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

[AHS 0921]

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

Sub. Code: 3501

**POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
(From 2014-2015 onwards)
PAPER I – BIOCHEMISTRY AND CLINICAL BIOCHEMISTRY
*Q.P. Code : 363501***

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2x20=40)

1. Define enzyme. List the different classes of enzymes with examples. Describe the various factors affecting enzyme activity.
2. Describe the dietary sources, recommended daily allowance(RDA), absorption, biological functions and deficiency manifestations of iron.

II. Write notes on:

(10x6=60)

1. Westgard rules.
2. Mucopolysaccharides.
3. Classification of aminoacids.
4. Watson and Crick model of DNA.
5. Chromatography-types and principles.
6. Beer-Lambert law and its applications.
7. Anticoagulants used for blood collection.
8. Enzymatic markers of myocardial infarction.
9. Phospholipids-examples and biological functions.
10. Respiratory acidosis-causes, clinical features and laboratory findings.
