

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

[AHS 0321]

MARCH 2021

Sub. Code: 3501

(OCTOBER 2020 EXAM SESSION)

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. What are the normal functions of the kidney? Explain the various tests done to assess the glomerular and tubular functions of the kidney. (5+15=20)
2. Describe the dietary sources, recommended daily allowance(RDA), absorption, biological functions and deficiency manifestations of folic acid. (2+2+6+6+4=20)

II. Write notes on:

(10x6=60)

1. Tumor markers.
2. Acute phase reactants.
3. Active site of an enzyme.
4. Chylomicron metabolism.
5. Parts of a photo colorimeter.
6. RNA-types and biological functions.
7. Internal and external quality control programme.
8. Endoplasmic reticulum-structure and biological functions.
9. Metabolic acidosis-causes,clinical features and laboratory findings.
10. High performance liquid chromatography-principle and applications.
