

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

[AHS 0122]

JANUARY 2022

Sub. Code: 2601

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR (Regulation 2014-2015 & 2018-2019)

PAPER I – ANATOMY AND PHYSIOLOGY, BIOCHEMISTRY

Q.P. Code : 842601

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail the classification of vitamins. Dietary sources and functions of Vitamin A.
2. Write in detail the structure and functions of kidney. Add a note on nephron.
3. Write in detail the structure, blood supply and functions of thyroid gland. Add a note on thyroid function test.

II. Write notes on:

(10 x 5 = 50)

1. Bleeding time and clotting time
2. Functions of gall bladder and disorders associated with gall bladder
3. Micturition
4. Blood supply of heart
5. Lipoprotein
6. Draw the labeled structure of brain
7. Classification of enzymes
8. Structure of cell membrane and its functions
9. Functions of hemoglobin
10. What are Heteropolysaccharides? Name some Heteropolysaccharides and enlist their functions.

III. Short answers on:

(10 x 2 = 20)

1. Nerve supply of eyes.
2. Define Basal Metabolic rate.
3. Sesamoid bone.
4. Name some buffer system in the body.
5. List out any two causes of dwarfism.
6. Glucose transporters.
7. Importance of HDL.
8. List out any four functions of Insulin.
9. Marasmus.
10. Tidal volume.
