

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

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 2501**

**(AUGUST 2020 EXAM SESSION)**

**DIPLOMA IN DIALYSIS TECHNOLOGY**

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

**PAPER I – ANATOMY & PHYSIOLOGY, BIOCHEMISTRY &  
PHARMACOLOGY**

***Q.P. Code : 842501***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. With the help of a suitable diagram, elaborate on the anatomy of the Digestive system.
2. Describe in detail on proteins and their functions.
3. Write in detail about Dialyzable drugs: Definition, dosage, actions, side effects and administration.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Elaborate on the anatomy of the kidney, using suitable diagram.
2. Write short notes on fat soluble vitamins.
3. Explain briefly on erythropoietin.
4. Elaborate on glucose metabolism.
5. Describe briefly the anatomy and functions of the lungs.
6. Briefly explain the factors affecting enzyme activity.
7. Elaborate on protamine sulphate.
8. Write on the physiology of muscle contraction.
9. Write short notes on diuretics.
10. Write brief note on low molecular weight heparin.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Constituents of Urine.
2. Uses of Cephalosporins.
3. Trace elements.
4. Vitamin B deficiency.
5. Endocrine organs.
6. Enzyme.
7. Uses of Acetazolamide.
8. Functions of Parathyroid gland.
9. Lithium toxicity.
10. Phosphate binders.

\*\*\*\*\*