

**DIPLOMA IN DIALYSIS TECHNOLOGY**  
**FIRST YEAR**  
**PAPER I – ANATOMY AND PHYSIOLOGY, BIOCHEMISTRY AND**  
**PHARMACOLOGY**

*Q.P. Code: 842501*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe in detail on structure and function of kidney with a neat labelled diagram.
2. Write in detail on vitamins and minerals.
3. Write in detail about the diuretics-Definition, classification, actions, side effects and contra indications.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Write short note on erythropoietin.
2. Write short note on protamine sulphate.
3. Write a brief notes on structure and function of Human cell.
4. Write a short note on lung anatomy.
5. Potassium exchange resins-list, mechanism of action, uses and adverse effects.
6. Write short note on suprarenal gland.
7. Short notes on drugs used in dialysis.
8. Classification of proteins and its functions.
9. Write short notes on Fat soluble vitamins.
10. Write short note on structure and functions of organs of hearing.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Name few lymphatic organs.
2. Composition of Blood.
3. Constituents of urine.
4. Functions of Nervous system.
5. Hormones secreted by the pituitary gland.
6. Fluids used in peritoneal dialysis.
7. Molality and Molarity.
8. Side effects of Heparin usage.
9. Cardinal signs of inflammation.
10. Henderson – Hasselbalch equation.

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