

[LJ 0816]

AUGUST 2016

Sub. Code: 2501

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

Q.P. Code: 842501

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Write in Detail on composition of blood and function of blood elements.
2. List the various groups of Anti - Hypertensive Drugs, their actions and adverse effects.
3. Write in detail on acid base homeostasis by kidneys.

II. Write notes on:

(10 x 5 =50)

1. Antiplatelet agents.
2. Low molecular weight heparin – mechanism of action, uses and dosage forms.
3. Functions of special sense organs.
4. Potassium sparing diuretics – list, mechanism of action, uses and adverse effects.
5. Toxicities of aminoglycosides.
6. Functions of proteins in cell function.
7. Digoxin –mechanism of action, pharmacologic effects, adverse effects, uses.
8. Role of erythropoietin in blood formation and routes and dosage forms.
9. Uses and precautions of crystalloids in renal failure patients.
10. Differentiate Acute and Chronic renal failure.

III. Short answers on:

(10 x 2 = 20)

1. Adverse effects of loop diuretics.
2. List 4 calcium channel blockers.
3. Brief the various types of potassium exchange resins.
4. Types and functions of coenzymes.
5. Calcitriol.
6. Basal metabolic rate.
7. Composition of peritoneal dialysis fluid.
8. Hydrogen peroxide as antiseptic.
9. List hormones involved bone and mineral homeostasis.
10. Coagulation factors- enumerate.
