

**B.Sc. DIALYSIS TECHNOLOGY
THIRD YEAR
PAPER I – DIALYSIS TECHNOLOGY**

Q.P. Code: 801321

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Draw a nephron and explain the parts and functions of a nephron in detail.
2. Classify water soluble vitamins and explain in detail about each of them.
3. Define neoplasia. Compare and contrast the features of benign and malignant tumors in detail.

II. Write notes on:

(8 x 5 = 40)

1. What are the methods available for haemoglobin estimation and explain in detail about Sahli's method of haemoglobin estimation?
2. What do you mean by ESR? How do you estimate the ESR by Westergren's method?
3. Circulatory shock.
4. What are leucocytes? Classify them and explain in detail about the morphology and function of granulocyte.
5. How is a cerebrospinal fluid analysis done? Compare and contrast the CSF findings in different types of meningitis.
6. Describe the role of kidney in maintaining acid base balance.
7. Brief account on menstrual cycle.
8. Renal dialysis.

III. Short answers on:

(10 x 3 = 30)

1. Name six agents that cause cell injury.
2. What are the outcomes of acute inflammation?
3. Consequences of defective inflammation.
4. Name four tumor causing viruses.
5. Name four conditions that cause neutropenia.
6. Name two conditions that is associated with decreased platelet count.
7. What are different types of RNA?
8. Auscultatory areas.
9. Erythropoiesis.
10. Rh factor.
