

**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. Explain about complications during hemodialysis and its management.
2. What are psychologic problems and psychosocial issues in the ESRD population?
3. What is peritoneal dialysis? Explain about its complications.

II. Write notes on: **(8 x 5 = 40)**

1. Write a short note on hemodialysis.
2. What is the composition of standard hemodialysis solution? What is Dual – concentrate system?
3. What are the types of permanent access for hemodialysis and its complications?
4. What are the factors favouring clotting of the extra-corporeal circuit? What are the signs of clotting in the extra-corporeal circuit?
5. Explain CAPD exchange procedure of double bag system.
6. What are the potential routes of infection in peritoneal dialysis?
7. What is GFR? What are the stages of CKD?
8. What are the acute dialysis indications for infants and children?

III. Short answers on: **(10 x 3 = 30)**

1. What is the surface area (m²), priming volume, Kuf (ml/hr/mmHg), membrane of F6HSP and F8HSP?
2. What is inter dialytic hypotension?
3. What are principles of peritoneal dialysis?
4. What is the use of inj. Heparin in peritonitis?
5. What are the pre and post patient assessment in hemodialysis?
6. What do you mean by online sodium clearance?
7. What is the replacement solutions used in plasmapheresis? What are its advantages and disadvantages?
8. Write a note on management and prevention of muscle cramps during hemodialysis?
9. What are the precautions you will take while doing hemodialysis for HIV patient?
10. What are the criteria of donor selection?
