

**Second Year B.Sc Dialysis Technology Degree Supplementary
Examinations June 2025****Paper II –Applied Pharmacology Related to Dialysis****(2020 Scheme)****Time: 3 Hours****Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay**(20)**

1. Classify diuretic agents with examples. Describe the mechanism of action of any one group of diuretic with the help of a diagram. Mention its dose and routes of drug administration. Discuss its adverse effects and contraindications.

Short Notes**(8x10=80)**

2. Describe the various properties of the drugs that affect their dializability.
3. What is Hemodiafiltration. Briefly describe the various fluids used in Hemodiafiltration (HDF).
4. Name few potassium exchange resins. Describe briefly the mode of administration and adverse effects and drug interactions of any one of them.
5. Describe the pharmacokinetics, dosing, therapeutic uses and advantages of Low Molecular Weight Heparin (LMWH).
6. Describe the role of Vitamin D in haemodialysis patients.
7. Describe the role of protamine sulfate in dialysis patients.
8. Alcohol as antiseptic.
9. Pharmacotherapy of iron deficiency anemia.
