

**Second Year B.Sc Dialysis Technology Degree Regular/Supplementary  
Examinations March 2024**

**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 anti-hypertensive drugs with examples. Describe the mechanism of action, adverse effects and contraindications of Angiotensin Converting Enzyme Inhibitors (ACEI).

**Short Notes**

**(8x10=80)**

2. Describe the various dialysis membrane properties that affect drug clearance.
3. Briefly describe the principles of Continuous Renal Replacement Therapy (CRRT).  
Add a note on fluids used in CRRT.
4. Mention various types of Erythropoietin Stimulating Agents (ESA). Briefly describe the considerations for use of ESA in Chronic Kidney Disease (CKD).
5. Describe the role of protamine sulfate in dialysis patients.
6. Describe the role of phosphate binders in ESRD patients on haemodialysis.
7. Role of adrenergic drugs in hypotension.
8. Low Molecular Weight Heparin (LMWH)
9. Nephrotoxic drugs.

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