

**PAPER CODE: AHS14010**

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**

**TELANGANA, WARANGAL – 506 002**

**B.Sc. (ALLIED HEALTH SCIENCES), SECOND YEAR DEGREE EXAMINATIONS: MAY, 2025**

**RENAL DIALYSIS TECHNOLOGY**

**PAPER-I**

**APPLIED ANATOMY, PHYSIOLOGY & PHARMACOLOGY RELATED TO DIALYSIS TECHNOLOGY**

**Time: 3 Hours**

**Max Marks: 80**

**Note:** Answer all questions

Draw diagrams whenever necessary with Black Ball point pen /HB pencil /any dark Color pencil.

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**Write an essay on any TWO of the following questions:**

**2 X 10 = 20**

1. Acid/Base regulation by the kidney.
2. Nephron structure.
3. Describe Peritoneal membrane anatomy, principles of peritoneal dialysis, Peritoneal dialysis fluids.

**Write a short note on any FIVE of the following:**

**5 X 6 = 30**

4. Different classes of Antihypertensives with examples for each.
5. Chemicals used for sterilizing in dialysis unit.
6. Emergency drugs in dialysis unit.
7. Iron therapy in dialysis patients/name different molecules used for treatment.
8. IVF fluids/names and composition of any three IVF.
9. Phosphorus regulation by kidney.

**Write briefly on the following:**

**10 X 3 = 30**

10. What is Antidiuretic hormone? Name its functions.
11. Factors affecting serum creatinine measurement.
12. Effects of Calcitriol.
13. Juxta glomerular apparatus.
14. Which vitamins are removed in dialysis?
15. Mechanism of action of Heparin. Name antidote to heparin.
16. Side effects of steroids.
17. Hypoglycaemia in dialysis patient.
18. Draw a diagram of Starlings forces.
19. Erythropoietin, site of production and its function.

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