

PAPER CODE: 6021

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002
D.M. /M.CH. DEGREE EXAMINATION: MARCH, 2025**

**NEPHROLOGY
PAPER – I
(BASIC SCIENCES)**

Time: 3 Hours.

Max Marks: 100

Note: Answer all questions.
Give Diagrammatic representation wherever necessary.

Write Essay on the following:

2x30=60

1. Anatomy of renal blood vessels, regulations of renal blood flow and the role of renal blood vessels in determining glomerular filtration rate.
2. Evaluation and management of a patient with suspected type I renal tubular acidosis. Diagrammatically describe the relevant electrolyte transporters.

Write short note on the following:

4x10=40

3. Bartters syndrome. Describe the different types and electrolytes imbalances seen in this condition.
4. Electrolyte transporters in the proximal tubule and the role of each. Illustrate the transporters diagrammatically.
5. Calcium sensing receptors.
6. Trans tubular potassium gradient.
