

MBBS Renal System – Physiology Chapter Wise Previous Exam Questions conducted by KUHS (Kerala University of Health Sciences)

1. Describe the counter current multiplier in the kidney/ Counter current mechanism in concentration of urine
2. Describe the mechanism of water re-absorption from the different parts of the renal tubules
3. Discuss the factors affecting Glomerular Filtration Rate. Mention one abnormal condition when GFR is decreased
4. Explain the mechanism of glucose reabsorption in renal tubules. What is the renal threshold and transport maximum of glucose
5. Factors affecting GFR
6. Renal clearance
7. Micturition Reflex
8. Nephrotic syndrome
9. Renal plasma clearance values for inulin, PAH and glucose giving their significance
10. Non renal functions of kidney
11. Cystometrogram
12. Juxtaglomerular apparatus
13. Auto regulation of glomerular filtration rate
14. Filtration pressure in glomerulus

Explain the Physiological basis

1. Hypersmolarity of renal medullary interstium
2. Anemia is seen in patients with renal disease
3. Filling and emptying of urinary bladder
4. Splay in renal glucose re-absorption curve
5. Tubulo glomerular feed back
6. Tubular maximum for glucose.
7. Urine output is decreased in summer season

Draw and Label

1. Nephron
2. Splay
3. Cystometrogram/ Cystometrogram in a normal human
4. Juxtaglomerular apparatus
5. Figure showing counter current multiplier and exchange system in renal tubules