



UNIT-5 RENAL SYSTEM

- 1. The last part of a nephron is the _____.
- A) Collecting Duct
- B) Renal papilla
- C) Distal convoluted tubule
- D) Glomerulus
 - 2. Which area actually secretes renin into the blood?
- A) Macula densa
- B) Juxtaglomerular apparatus
- C) Juxtaglomerular cells
- D) Cortical nephron
- 3. Which blood vessel conveys blood out of the nephron?
- A) Efferent arteriole
- B) Vasa recta
- C) Peritubular capillary
- D) Interlobular vein
- 4. Which blood vessels surround the loops of Henle?
- A) Vasa recta
- B) Peritubular capillaries
- C) Interlobular arteries
- D) Efferent arterioles





5.	Which	of	the	following	are	not	found	in	the	alome	rular	filtrate?

- A) Glucose
- B) Protein
- C) Uric acid
- D) Creatinine

6. Which muscle metabolism waste product is eliminated by the kidneys?

- A) Urea
- B) Uric acid
- C) Creatine
- D) Creatinine

7. Which of these has the highest concentration in the urine?

- A) Glucose
- B) Sodium
- C) Uric acid
- D) Phosphate

8. Which ion is reabsorbed in exchange for sodium?

- A) Chloride
- B) Potassium
- C) Calcium
- D) Magnesium

9. What is the average glomerular filtration rate?





A) 10 L per day B) 180 L per day C) 1,500 ml per day D) 1 ml per minute
10. Which of the following is usually not found in the urine?
A) Magnesium B) Urea C) Uric acid D) Glucose
11. How much urine is formed in 24 hours?
A) 12 liters B) 100 ml C) 1.5 L D) 3,000 cc
12. Renin acts on to convert it to angiotensin I.
A) Angiotensin II B) Angiotensinogen C) ACE D) Aldosterone
13. The targets of angiotensin II are blood vessels and





A) Nerves B) Adrenal cortex C) Adrenal medulla D) Kidney nephron
14. Tubular re-absorption occurs from the nephron tubules into the
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A) Loop of Henle B) Peritubular capillaries C) Renal corpuscle D) Renal pyramid
15. Most tubular re-absorption occurs at the
A) Loop of Henle B) Distal convoluted tubule C) Proximal convoluted tubule D) Glomerulus
16. Where are most micro-villi found?

- A) Loop of Henle
- B) Distal convoluted tubule
- C) Loop of Henle
- D) Proximal convoluted tubule

17. Which of the following occurred by active transport?



D) Capsule



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A) Albumin in the urineB) Creatinine in the urineC) Re-absorption of water at the proximal tubuleD) Re-absorption of amino acids
18. Which of these does not operate under a renal threshold mechanism?
A) Creatinine B) Ascorbic acid C) Sodium D) Citric acid
19. The action of aldosterone is to increase
A) Sodium eliminationB) Sodium reabsorptionC) Potassium reabsorptionD) Chloride excretion
21. The outermost covering of the kidney is the
A) Cortex B) Medulla C) Pelvis

22. The kidneys are located in the _____ space.



A) Pelvic cavity



B) Peritoneal cavity C) Abdominal D) Retro-peritoneal
23. The entrance into the kidney is called the
A) Sinus B) Column C) Hilum D) Pyramid
24. Which structure is the first to collect the urine?
A) Pelvis B) Calyx C) Ureter D) Urethra
26. The renal pyramids are located within the
A) Column B) Cortex C) Medulla D) Pelvis
27. The striated appearance of the pyramids is caused by





A) Parallel blood vesselsB) Micro-tubulesC) Connective tissueD) Nerve fibers
28. The kidney secretes for the purpose of stimulating bone marrow activity.
A) Renin B) Aldosterone C) Erythropoietin D) Somatomedin
29. The kidney secretes, which is an enzyme hormone that raises blood pressure.
A) Aldosterone B) Renin C) Angiotensinogen D) Angiotensin II
30. Uric acid results from metabolism.
A) Protein B) Carbohydrate C) Purine D) Pyrimidine
31. Renal secretion of a compound usually occurs from theinto the distal convoluted tubule.



A) Loop of Henle



B) Glomerulus C) Vasa recta D) Peritubular capillaries
32. Which of these is not usually secreted by the kidneys?
A) Creatine B) Creatinine C) H + D) Penicillin
33. The compound used to assess the function of the kidney at the level of the glomerulus is
A) Creatinine B) Insulin C) Para-aminohippuric acid D) Creatine
34. Which of these could appear in the urine from dieting or the utilization of excess lipids?
A) Urea B) Uric acid C) Glycine D) Ketone
35. Vigorous exercise could release high amounts of into the urine.





- A) Glucose
- B) Uric acid
- C) Albumin
- D) Ascorbic acid
- 36. What causes urine to flow from the kidneys to the bladder?
- A) Gravity
- B) Hydrostatic pressure
- C) Peristalsis
- D) Osmotic pressure
- 37. Renal calculi are usually comprised of the following except which one?
- A) Calcium oxalate
- B) Cholesterol
- C) Uric acid
- D) Magnesium phosphate
 - 38. The mucosa of the bladder is comprised of _____.
- A) Smooth muscle
- B) Squamous epithelium
- C) Transitional epithelium
- D) Simple columnar epithelium
- 39. Which of these is under voluntary control?





43. Which blood vessel delivers blood to the cortex?





- A) Interlobular artery
- B) Arcuate artery
- C) Interlobar artery
- D) Efferent arteriole

44.	The renal	corpuscle	is c	omprised	of a	a q	lomerulus and	
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- A) Proximal convoluted tubule
- B) Bowman's capsule
- C) Loop of Henle
- D) Distal convoluted tubule

45. Which section of the nephron is after the ascending limb of the loop of Henle?

- A) Descending limb of the loop
- B) Proximal convoluted tubule
- C) Distal convoluted tubule
- D) Collecting duct

49. What effect does ADH have on urine output?

- A) Minimal
- B) Increases
- C) Decreases
- D) Maintains

50. Where does ADH have its greatest effect?





- A) Loop of Henle
- B) Proximal convoluted tubule
- C) Distal convoluted tubule
- D) Glomerulus
