## Practice Questions Ch 10: (Kidney Physiology) Updated 12/7/22

1. ADH promotes water retention by stimulating

A. NaCl reabsorption in proximal convoluted tubule. 
E. Water reabsorption in collecting duct.

B. NaCl reabsorption in ascending loop of Henle. F. Water reabsorption in descending loop of Henle.

C. NaCl reabsorption in collecting duct.

G. Water reabsorption in proximal convoluted tubule.

D. NaCl reabsorption in the distal convoluted tubule. H. Water reabsorption in distal convoluted tubule.

2. Aldosterone first stimulates

A. NaCl reabsorption in proximal convoluted tubule. 
E. Water reabsorption in collecting duct.

B. NaCl reabsorption in ascending loop of Henle. F. Water reabsorption in descending loop of Henle.

C. NaCl reabsorption in collecting duct.

G. Water reabsorption in proximal convoluted tubule.

D. NaCl reabsorption in the distal convoluted tubule. H. Water reabsorption in distal convoluted tubule.

3. About 65% of the filtrate within the nephron is automatically reabsorbed in the

A. proximal convoluted tubule. D. ascending loop of Henle.

B. distal convoluted tubule. E. descending loop of Henle.

C. collecting duct.

4. Diuretic drugs that act in the loop of Henle work primarily first by

A. inhibiting NaCl transport.

C. inhibiting K+ transport.

B. inhibiting water transport. D. inhibiting Ca+2 transport.

5. Glucosuria

A. occurs normally.

B. indicates the presence of kidney disease.

C. occurs when the glucose receptors in the proximal convoluted tubule become saturated.

D. occurs because of increased blood glucagon.

6. Parasympathetic regulation causes

A. constriction of the proximal urethral sphincter.

B. relaxation of the proximal urethral sphincter.

C. constriction of the detrusor muscle.

E. answers A & C

F. answers B & C

G. answers B & D

D. relaxation of the detrusor muscle.

H. answers A & D

7. Sympathetic regulation causes

A. constriction of the proximal urethral sphincter.

B. relaxation of the proximal urethral sphincter.

C. constriction of the detrusor muscle.

E. answers A & C

F. answers B & C

G. answers B & D

D. relaxation of the detrusor muscle.

H. answers A & D

8. The distal urethral sphincter is under autonomic control.

A. TRUE B. FALSE

9. Urolithiasis is

A. a disorder of insufficient ADH secretion.

B. otherwise known as kidney stones.

C. otherwise known as polycystic kidney disease.

D. a disorder of excess cortisol secretion by the adrenal cortex.

E. a disorder of insufficient aldosterone secretion by the adrenal cortex.

10.	Addison's disease is					
A. is a disorder of insufficient ADH secretion.						
	<ul><li>B. otherwise known as kidney stones.</li><li>C. is otherwise known as polycystic kidney disease.</li><li>D. is a disorder of excess cortisol secretion by the adrenal cortex.</li></ul>					
	E. a disorder of insufficie	ent aldosterone s	secretion by the a	adrenal cortex.		
11.	An infection of the kidney	s is know as		•		
	A. pylenonephritis		C. urethritis	D. vaginitis	E. urolithiasis	
12.	Binding of	on sm	ooth muscle of t	he bladder detri	usor muscle will cause r	elaxation
	A. ACh to $\alpha$ -adrenergic r	D. epi	D. epinephrine to muscarinic cholinergic receptors			
B. ACh to $\beta$ 1-adrenergic receptors E. epinephrine to $\beta$ 2-adre					adrenergic receptors	
	C. ACh to muscarinic cho	linergic recepto	rs F. epi	nephrine to β3-	adrenergic receptors	
13.	Inflammation of the bladd	ler is known as				
	A. pylenonephritis	B. cystitis	C. urethritis	D. vaginitis	E. urolithiasis	
14.	Systolic blood pressure of	180 mmHg wou	ld cause			
A. increased glomerular filtration rate.						
	B. decreased glomerular filtration rate.					
	C. no change in glomerul	lar filtration rate	<b>.</b> .			
15.	Increased aldosterone pro	duction is know	n as			
	A. Diabetes mellitus.	D. Co	nn's syndrome.			
	B. Diabetes insipidus.	E. Ad	dison's disease.			
	C. Cushing's disease.					

## Ch 10. Answers:

1. E

2. D

3. A

4. A

5. C

6. F

7. H

8. B

9. B

10. E

11. A

12. E & F

13. B

14. A

15. D

## How did you do?