

Exam 8

Question 1

2.5 / 2.5 pts

Each of the following statements are true regarding control over the GFR except:

The kidney can maintain a constant GFR despite variations in the arterial blood pressure of the rest of the body.



The sympathetic nervous system cannot supersede the renal autoregulatory system.

The sympathetic nervous system can supersede the renal autoregulatory system.



The RAA responds when blood pressure drops below normal limits.

Question 2

2.5 / 2.5 pts

Which of the following statements is false regarding ADH?



Elevated levels of ADH will lead to a small volume of concentrated urine.



Elevated levels of ADH will lead to dilute urine.

decreased levels of ADH will lead to dilute urine.



Alcohol inhibits ADH.

Question 3

2.5 / 2.5 pts

Which of the following statements is true regarding nephrons?



It is divided into an outer medulla and an inner cortex



It has 1 source of blood supply



The glomerulus filters the blood while the tubule reabsorbs needed nutrients

Question 4

0 / 2.5 pts

Low Na^+ levels in the plasma and interstitial compartment is characteristic of which of the following fluid imbalances?



Dehydration

Correct Answer



Water intoxication



Edema

Question 5

0 / 2.5 pts

Tubular reabsorption is characterized by which of the following?



The reabsorption of water and ions via passive means only



Necessary solutes and fluids are reabsorbed into the tubular fluid

Correct Answer



Necessary solutes and fluids are reabsorbed into the peritubular capillaries

Question 6

0 / 2.5 pts

Which of the following is/are true regarding acid-base balance? (**mark all that apply**)



Acid-base balance refers to the balance of the concentration of hydrogen ions (H⁺) in the blood

Acid-base balance refers to the balance of the concentration of bicarbonate ions (OH⁻) in the blood

Correct Answer

Venous blood is characterized by a more acidic pH

A higher concentration of OH⁻ ions will increase the pH of the blood

Question 7

2.5 / 2.5 pts

Acute postinfectious glomerulonephritis is by the following except:

Typically caused by a streptococcal infection

Associated with a poor prognosis as it often leads to CKD

the prognosis is good when underlying cause is treated

Accompanied by glomerular enlargement and hypercellularity

Oliguria is often the first symptom

Question 8

0 / 2.5 pts

Which of the following is characteristic of chronic transplant rejection?

Correct Answer



Involves humoral immunity

It responds well to immunosuppressive therapy

Involves increased T lymphocytes

Question 9

0 / 2.5 pts

Which of the following is true of 1,25-dihydroxycholecalciferol?

It is the inactive form of vitamin D taken in through the skin via UV rays

It is the inactive form of synthetic vitamin D

It is the active form of vitamin D, converted in the liver

Correct Answer

It is the active form of vitamin D, converted in the kidney

Question 10

2.5 / 2.5 pts

A patient is said to be in stage 3a kidney disease. What would you expect their GFR to be?

A. 97 mL/min/1.73m²

B. 42 mL/min/1.73m²

C. 70 mL/min/1.73m²

D. 14 mL/min/1.73m²

A.

