U6M24L3: Excretory System

1. Which of the following are among the role of the excretory system in maintaining homeostasis? (KPI 24.3.1, Knowledge/Comprehension)

   I. Regulates the amount of fluid
   II. Regulates the amount of salts
   III. Maintains the pH of the blood

   A. I and II only
   B. I and III only
   C. II and III only
   D. I, II, and III

2. Which of the following is **NOT** a principal structure of the excretory system? (KPI 24.3.2, Knowledge)

   A. Kidney
   B. Liver
   C. Lung
   D. Pancreas

3. Which of the following is a mismatch between the excretory organ and the type of wastes it eliminates? (KPI 24.3.2, Knowledge/Comprehension)

   A. Kidney: oxygen and nitrogen oxide
   B. Liver: toxic wastes
   C. Lung: carbon dioxide
   D. Skin: water and salts

4. If a person suffers from a condition where his body is unable to detoxify drugs and medications, then which organ is not functioning properly? (KPI 24.3.3, Application)

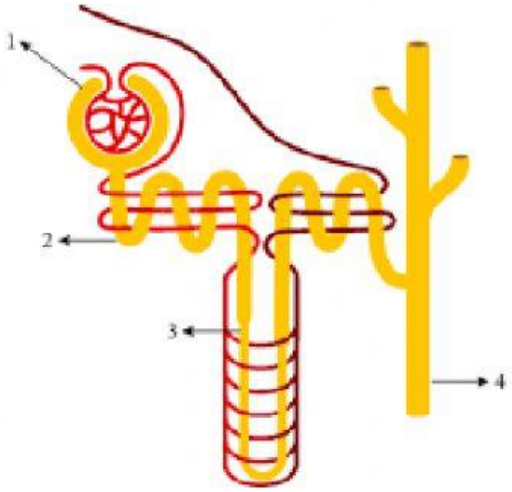
   A. Liver
   B. Lung
   C. Pancreas
   D. Skin

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5. During the process of filtration that occurs in the kidney, which of the following is/are **NOT** filtered out of the blood and stays in bloodstream? (KPI 24.3.4 Knowledge)

   A. Red blood cells
   B. Sugar
   C. Urea
   D. Water

Use the diagram below to answer questions **6** and **7**.



6. Which number represents the collecting duct? (KPI 24.3.5 Knowledge)

   A. 1
   B. 2
   C. 3
   D. 4

7. Which number(s) represent(s) where the step of reabsorption occurs? (KPI 24.3.5 Knowledge)

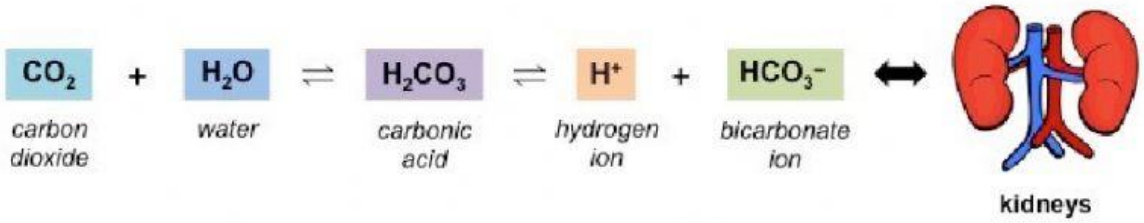
   A. 1 only
   B. 2 only
   C. 2 and 3 only
   D. 2, 3, and 4 only

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8. Which of the following is the correct path of the urine as it is excreted from the body? (KPI 24.3.6 Knowledge)

   A. Renal pelvis → urethra → bladder → ureter
   B. Renal pelvis → ureter → bladder → urethra
   C. Ureter → renal pelvis → bladder → urethra
   D. Ureter → renal pelvis → urethra → bladder

9. When CO_2 level increases in body, the blood become acidic. Based on the diagram below, which of the below will the kidney do to bring the pH back to its normal value? (KPI 24.3.7 Application/Analysis)



   A. CO_2 is excreted by the kidney as a gas causing pH value to decrease
   B. HCO_3^- is excreted from blood causing pH value to decrease
   C. H^+ is excreted from blood causing pH value to increase
   D. Water is eliminated more from the kidney causing the pH value to decrease

10. Which of the following are among the disorders of the urinary system? (KPI 24.3.8, Knowledge)

   I. Kidney stones
   II. Nephritis
   III. Ulcers

   A. I and II only
   B. I and III only
   C. II and III only
   D. I, II, and III

11. Which of the following is correct about kidney dialysis treatment? (KPI 24.3.9, Knowledge/Comprehension)

   A. Chemical medications are used to help the patient's kidney recover from infections
   B. Involves a transplant of a kidney inside the patient body
   C. Uses artificial kidney machine to filters out wastes and toxins from a patient's blood
   D. Uses ultrasound waves to filter blood

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12. Which of the following can **NOT** be used to treat kidney stones?
(KPI 24.3.10, Knowledge)

A. Chemotherapy
B. Drinking large amounts of water
C. Surgery
D. Ultrasonic sound waves

13. Which of the following is a part of the homeostasis process that involves the three body systems of the circulatory system, the respiratory system, and the excretory system?
(KPI 24.3.11, Knowledge)

A. Antidiuretic hormone
B. Calcium ions
C. Carbon dioxide
D. Cholesterol

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