

Test – Lesson 11 – Urological – Answer Key

1. Which statement is correct?

(A) Each Bowman's capsule is nestled inside a glomerulus.

(B) Each glomerulus is nestled inside a Bowman's capsule.

(C) Each nephron is nestled inside a Bowman's capsule.

(D) Each glomerulus is nestled inside a nephron.

2. The first part of the urinary filtrate does not contain _____.

(A) red blood cells

(B) water

(C) sodium ions

(D) amino acids

3. Most of the glucose in the urinary filtrate is reabsorbed into the _____.

(A) nephron

(B) Bowman's capsule

(C) proximal convoluted tubule

(D) distal convoluted tubule

4. Which of the following statements about the loop of Henle are true? (Select all that apply.)

(A) The loop of Henle dips into the medulla of the kidney.

(B) The loop of Henle dips into a very hypotonic area of the kidney.

(C) The loop of Henle is where a great deal of water is reabsorbed into the blood stream.

(D) The loop of Henle is where a great deal of sodium and chloride are reabsorbed into the blood stream.

5. Which of the following statements about the distal convoluted tubule are true? (Select all that apply.)

(A) The distal convoluted tubule absorbs a lot of water.

(B) Aldosterone acts on the distal convoluted tubule to reabsorb potassium ions back into the blood stream.

(C) Parathyroid hormone stimulates the distal convoluted tubule to reabsorb calcium ions into the blood stream.

(D) The distal convoluted tubule lies in the renal cortex.

6. Which statements about the collecting duct are true? (Select all that apply.)

- (A) Antidiuretic hormone from the posterior pituitary causes water in the collecting duct to be reabsorbed into the blood stream.**
- (B) Water molecules pass through aquaporin channels in the collecting duct.**
- (C) The collecting ducts pass through high solute concentration in the adrenal medulla.**
- (D) The collecting duct is the final segment of the nephron.**

7. Which statements about urea are true? (Select all that apply.)

- (A) Urea is the molecule used to remove phosphate groups from the body.**
- (B) The biggest contributor to urea molecules are amino acids.**
- (C) The concentration of urea in the renal medulla is the same as in the collecting ducts.**
- (D) Urine leaving the kidneys always contains urea.**

8. Which statements about the bladder are true? (Select all that apply.)

- (A) The bladder receives urine from the kidneys via both urethras.**
- (B) Nerves controlling the bladder begin in the lumbar and sacral parts of the spinal cord.**
- (C) Sympathetic nerves to the bladder relax the bladder walls.**
- (D) Parasympathetic nerves to the bladder squeeze the bladder walls.**