

Test – Lesson 11 – Urological

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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.