Anatomy & A&P 25 Urinary System Essay

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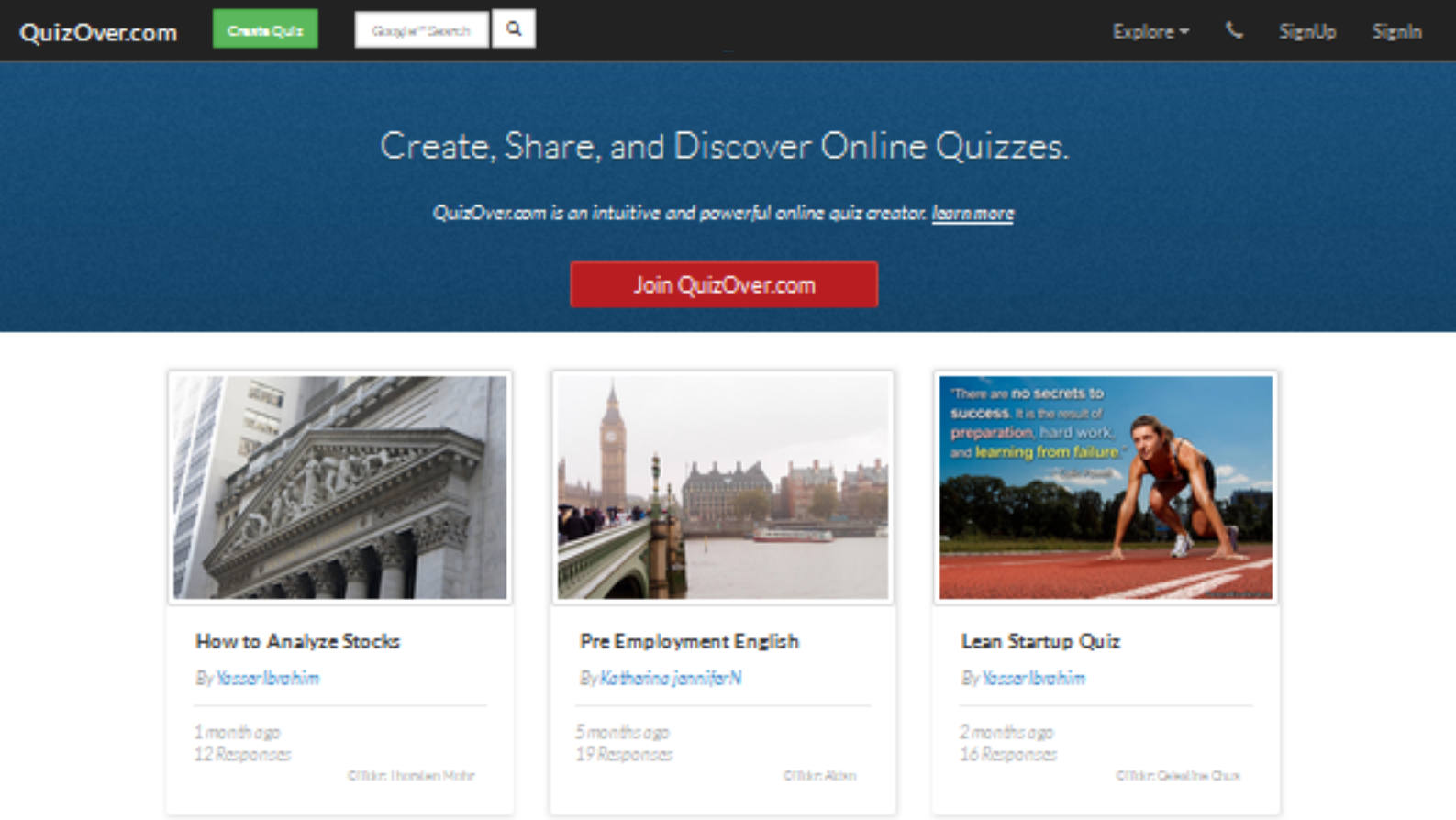

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4. Chapter: A&P 25 Urinary System Essay

1. A&P 25 Urinary System Essay Questions

4.1.1. What is suggested by the presence of white blood cells found in the...

Author: OpenStax College

What is suggested by the presence of white blood cells found in the urine?

- The presence of white blood cells found in the urine suggests urinary tract infection.

Check the answer of this question online at QuizOver.com:
Question: What is suggested by the presence of white OpenStax College Anatomy

4.1.2. Both diabetes mellitus and diabetes insipidus produce large urine v...

Author: OpenStax College

Both diabetes mellitus and diabetes insipidus produce large urine volumes, but how would other characteristics of the urine differ between the two diseases?

- Diabetes mellitus would result in urine containing glucose, and diabetes insipidus would produce urine with very low osmolarity (low specific gravity, dilute).

Check the answer of this question online at QuizOver.com:
Question: Both diabetes mellitus and diabetes OpenStax College Anatomy Quest

4.1.3. Why are females more likely to contract bladder infections than males?

Author: OpenStax College

Why are females more likely to contract bladder infections than males?

- The longer urethra of males means bacteria must travel farther to the bladder to cause an infection.

Check the answer of this question online at QuizOver.com:
Question: Why are females more likely to contract OpenStax College Anatomy

4.1.4. Describe how forceful urination is accomplished.

Author: OpenStax College

Describe how forceful urination is accomplished.

- Forceful urination is accomplished by contraction of abdominal muscles.

Check the answer of this question online at QuizOver.com:
Question: Describe how forceful urination is OpenStax College Anatomy

4.1.5. What anatomical structures provide protection to the kidney?

Author: OpenStax College

What anatomical structures provide protection to the kidney?

- Retroperitoneal anchoring, renal fat pads, and ribs provide protection to the kidney.

Check the answer of this question online at QuizOver.com:
Question: What anatomical structures provide protection OpenStax College Anatomy

4.1.6. How does the renal portal system differ from the hypothalamo-hypoph...

Author: OpenStax College

How does the renal portal system differ from the hypothalamo-hypophyseal and digestive portal systems?

- The renal portal system has an artery between the first and second capillary bed. The others have a vein.

Check the answer of this question online at QuizOver.com:
Question: How does the renal portal system differ OpenStax College Anatomy

4.1.7. Name the structures found in the renal hilum.

Author: OpenStax College

Name the structures found in the renal hilum.

- The structures found in the renal hilum are arteries, veins, ureters, lymphatics, and nerves.

Check the answer of this question online at QuizOver.com:
Question: Name the structures found in the renal OpenStax College Anatomy Quest

4.1.8. Which structures make up the renal corpuscle?

Author: OpenStax College

Which structures make up the renal corpuscle?

- The structures that make up the renal corpuscle are the glomerulus, Bowman's capsule, and PCT.

Check the answer of this question online at QuizOver.com:
Question: Which structures make up the renal corpuscle OpenStax College Anatomy

4.1.9. What are the major structures comprising the filtration membrane?

Author: OpenStax College

What are the major structures comprising the filtration membrane?

- The major structures comprising the filtration membrane are fenestrations and podocyte fenestra, fused basement membrane, and filtration slits.

Check the answer of this question online at QuizOver.com:
Question: What are the major structures comprising OpenStax College Anatomy

4.1.10. Give the formula for net filtration pressure.

Author: OpenStax College

Give the formula for net filtration pressure.

- Net filtration pressure (NFP) = glomerular blood hydrostatic pressure (GBHP) - [capsular hydrostatic pressure (CHP) + blood colloid osmotic pressure (BCOP)]

4.1.11. Name at least five symptoms of kidney failure.

Author: OpenStax College

Name at least five symptoms of kidney failure.

- Symptoms of kidney failure are weakness, lethargy, shortness of breath, widespread edema, anemia, metabolic acidosis or alkalosis, heart arrhythmias, uremia, loss of appetite, fatigue, excessive urination, and oliguria.

4.1.12. Which vessels and what part of the nephron are involved in counterc...

Author: OpenStax College

Which vessels and what part of the nephron are involved in countercurrent multiplication?

- The vasa recta and loop of Henle are involved in countercurrent multiplication.

Check the answer of this question online at QuizOver.com:
Question: Which vessels and what part of the nephron OpenStax College Anatomy

4.1.13. Give the approximate osmolarity of fluid in the proximal convoluted...

Author: OpenStax College

Give the approximate osmolarity of fluid in the proximal convoluted tubule, deepest part of the loop of Henle, distal convoluted tubule, and the collecting ducts.

- The approximate osmolarities are: CT = 300; deepest loop = 1200; DCT = 100; and collecting ducts = 100-1200.

4.1.14. Explain what happens to Na+ concentration in the nephron when GFR i...

Author: OpenStax College

Explain what happens to Na+ concentration in the nephron when GFR increases.

- Sodium concentration in the filtrate increases when GFR increases; it will decrease when GFR decreases.

Check the answer of this question online at QuizOver.com:
Question: Explain what happens to Na concentration OpenStax College Anatomy

4.1.15. If you want the kidney to excrete more Na+ in the urine, what do yo...

Author: OpenStax College

If you want the kidney to excrete more Na+ in the urine, what do you want the blood flow to do?

- To excrete more Na+ in the urine, increase the flow rate.

Check the answer of this question online at QuizOver.com:
Question: If you want the kidney to excrete more Na OpenStax College Anatomy

4.1.16. What organs produce which hormones or enzymes in the renin-angioten...

Author: OpenStax College

What organs produce which hormones or enzymes in the renin-angiotensin system?

- The liver produces angiotensinogen, the lungs produce ACE, and the kidneys produce renin.

Check the answer of this question online at QuizOver.com:
Question: What organs produce which hormones or OpenStax College Anatomy Quest

4.1.17. PTH affects absorption and reabsorption of what?

Author: OpenStax College

PTH affects absorption and reabsorption of what?

- PTH affects absorption and reabsorption of calcium.

Check the answer of this question online at QuizOver.com:
Question: PTH affects absorption and reabsorption OpenStax College Anatomy

4.1.18. Why is ADH also called vasopressin?

Author: OpenStax College

Why is ADH also called vasopressin?

- When first discovered, it was named for its known activity-vasoconstriction.

Check the answer of this question online at QuizOver.com:
Question: Why is ADH also called vasopressin OpenStax College Anatomy

4.1.19. How can glucose be a diuretic?

Author: OpenStax College

How can glucose be a diuretic?

- In cases of diabetes mellitus, there is more glucose present than the kidney can recover and the excess glucose is lost in the urine. It possesses osmotic character so that it attracts water to the forming urine.

Check the answer of this question online at QuizOver.com:
Question: How can glucose be a diuretic OpenStax College Anatomy Physiology

4.1.20. How does lack of protein in the blood cause edema?

Author: OpenStax College

How does lack of protein in the blood cause edema?

- Protein has osmotic properties. If there is not enough protein in the blood, water will be attracted to the interstitial space and the cell cytoplasm resulting in tissue edema.

Check the answer of this question online at QuizOver.com:
Question: How does lack of protein in the blood OpenStax College Anatomy Quest

4.1.21. Which three electrolytes are most closely regulated by the kidney?

Author: OpenStax College

Which three electrolytes are most closely regulated by the kidney?

- The three electrolytes are most closely regulated by the kidney are calcium, sodium, and potassium.

Check the answer of this question online at QuizOver.com:
Question: Which three electrolytes are most closely OpenStax College Anatomy