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Dear readers, Welcome to renal physiology objective questions and answers have been designed specifically to introduce you to the nature of the questions that you may encounter during the renal physiology interview A few selection questions. These objective type of renal physiology issues are very important for campus test placement and interviewing. In my experience good interviewers hardly plan to ask any specific question during the interview, and these model questions are asked in online technical test and interviews of many medical industries. 1. Regarding renal ontology: A. pronephros is a transient kidney present during the embryonic life of all vertebrates B. mesonephros is a functional but transient kidney during the fetal life of mammals C. The main morphological difference between metanephros (permanent kidney) and mesonephros, is the development of the Henle D. The main barrier, which excludes the free passage of albumin through the glomerular capillary walls, is formed: A. fenestrated glomerular endothelium B. anion proteoglycan clusters in the glomerular membrane of the basement C. Filtering slits between visceral epithelial cells (podocytes) D. None of them is correct. As for the measurement of the flow of renal plasma (RPF) and the rate of glomerular filtration (GFR): A. inulin is a good marker of GFR, because it is freely filtered into the glomeruli and not absorbed, or secreted, kidney tubules B. inulin concentration in the proximal tubule increases gradually as water is absorbed in the nephron C segment. PAH (para-aminohippuric acid) is a good marker of renal plasma flow because it is freely filtered and quickly excreted by the proximal tubule. As a result, very few PAHs reach the renal vein of D. A and C are correct E. All correct answer: E 4. Regarding functional kidney histology: A. surface nephrons have short Henle loops; Thus, they have a low ability to reabsorb salt (salt loss of nephrons) B. Deep nephrons have long Henle loops; Thus, they have a high ability to reabsorb salt and water C. when dehydrated, blood flow to deep nephrons tends to increase D. A and C are correct E. All is right Answer: E 5. The following factor (s) tends (s) to INCREASE rate of glomerular filtration (GFR): A. Reducing the concentration of albumin in plasma B. Vasodilation of afferent (preglomerular) arteriole C. vasoconstriction of efferent (postglomerular) arteriole D. A and C are correct E. All correct Answer: E 6. The following factor (s) tends (s) to INCREASE rate of glomerular filtration (GFR): A. sympathetic stimulation (norepinephrine) of afferent arteriole B. kidney tubules, ureters or C. C. C ureters. of the efferent arteriole D. None of them are correct E. All is correct Answer: D 7. As for the function of glomerular mesangial cells: A. mesangial cells can contract and cause some decrease in the overall area of glomerular filtration B. mesangial cells play an important role in systemic angiotensin II produced by C. Mesangial cells are phagocytic and play a role in cleaning proteins and immune deposits, in the trap of mesangium D. A and C are correct E. All is correct Answer: D 8. Regarding the function of proximal tubule- A. Most of the glomerular ultrafiltration is reabsorbed in a proximal tubule-shaped form. B. THE concentration of PAH does not change much along the length of the proximal tubules C. Under normal conditions, most of the filtered glucose and bicarbonate are reabsorbed in the proximal tubule D. A and C are correct E. All correctly Answer: D 9. As for metabolic energy (in production) for renal transport: A. The main substrate for proximal tubules is glucose B. cortical PO₂ is about 10 mmHg. Papillary tissues usually generate ATP through oxidative metabolism D. A and C are correct E. All correctly The answer is: B 10. As for the reabsorption of the water of the proximal tubule: A. The main driving force behind water reabsorption in the proximal tubule is osmotic pressure in peritubular capillaries B. A significant amount of water absorption in the proximal tubule-shaped tubule depends on the absorption of sodium by Na/H antiporter in their luminous membrane C. aquaporin-1 (water channels) in abundance. A and C are the correct E. All the correct answer is: E 11. As for the thick loop of Henle: A. The thick loop segment has a very powerful Na/K/2Cl pump that moves salt from tubular lumen to peritubular space B. Water and urea move freely through the epithelium of the thick upward segment of loop C. After the introduction of furosemide (Lasix) large amounts of diluted urine D. A and C are correct E. As for urine concentration: A. The thick Henle loop generates most of the osmotic gradient needed to reabsorb the water in the collecting duct B. Tubular urine reached by the collecting duct is usually hypotonic in relation to plasma C. In the absence of ADH urine is not concentrated along the length of the collecting duct D. A and C are the correct answer to the E. Regarding the transportation of urea in different segments of nephron: A. The main tubular route of urea is plasma through glomerular ultrafiltration B. Concentration of urea in lumen of cortical collectors increases as water is absorbed by C. Thin Henle loop and medullary collecting duct D. A and C are correct E. All correct Answer: E 14. Relatively macula densa: A. macula densa senses the total amount of sodium chloride (sodium chloride concentration) tubular urine, if the delivery of sodium chloride is lower than usual, the macula densa signals afferent arteriole (preglomerular) to release renin C. renin causes intra-tubular formation of angiotensin and indirectly release of aldosterone D. A and C correct E. All correct response: E. As for angiotensin II: A. exocrine renin-angiotensin-aldosterone system includes angiotensinogen-produced liver, the secretion of the renin juxtaglomerular apparatus and angiotensin-converting enzyme present on the glomerular surface of the endothelial cells B. aldosterone, but not Ang II, stimulates thirst and salty appetite C. angiotensin II causes a noticeable increase in the reabsorption of sodium loops Henle and collects the proximal flow D. A and C are correct E. Within an hour of intravenous infusion of angiotensin II, the following is clinically evident: A. Increased sodium absorption in proximal tubular epithelium B. systemic vasculature C. Increased plasma aldosterone D and C are correct E. All correctly Answer: E 17. Within eight hours of a large intravenous infusion of aldosterone, the following is clinically evident: A. constant sodium reabsorption by collecting duct B. Reducing the release of potassium and hydrogen in the urine of C. hypernatremia (high levels of sodium in plasma), hypokalemia (low potassium in plasma) and alkalosis (low and hydrogen activity in plasma). A and C are true E. All correctly Answer: C 18. As for the regulation of blood pressure: A. prostaglandins and dopamine and bradykinin vasodilator B. ADH, angiotensin II and epinephrine vasoconstricting C. vasodilator/vasoconstricting ratio that regulates general peripheral resistance plus heart rate and heart rate are determinants of blood pressure D. As for cell volume regulation: A. Na/H and Cl/HCO₃ antiporter are involved in hypertensive regulation of cell volume B. Fast efflux of cytoplasmic water is accompanied by a volume regulator KCl efflux. Intravenous introduction of 1.5 litre isotonic Ringer solution for a healthy adult may cause: A. Increased cardiac ejection and renal blood flow B. Increased GFR C. Increased atrial natriuretic peptide and reduced renin in plasma D and C are correct E. All correct answer: E 21. Renin A. increased reabsorption H₂O B. Reducing sodium reabsorption C. All formation D. Increased sodium reabsorption E. Reduced phosphate reabsorption Response: C 22. Atrial natriuretic A. Increase increase Reabsorption B. Reducing Sodium Reabsorption C. All Formation D. Increased Sodium Reabsorption E. Reducing phosphate reabsorption Response: B 23. ADH A. Increased reabsorption H₂O B. Reducing sodium reabsorption C. All formation D. Increased sodium reabsorption E. Reduced phosphate reabsorption Response: A 24. All A. Increased reabsorption H₂O B. Reducing sodium reabsorption C. All formation D. Increased sodium reabsorption E. Reduced phosphate reabsorption Response: E 26. Which of the following is correct about non-volatile acids. A. They are not essential to eliminate B from the body. All the following occur within one hour of eating a large acid load EXCEPT: A. The acid load is immediately buffered by intracellular proteins and phosphates, as well as extracellular bicarbonate B. The lungs will begin to eliminate the CO₂ generated by acid load C. The kidney will eliminate all non-metabolic acids and regenerate bicarbonate to replace all bicarbonate used in buffering D. hemoglobin will buffer some of the protons. If the pH is 7.60 (concentration of H⁺ 25 nEq/L) and pCO₂ is 40 mm Hg. what HCO₃-concentration is (in mEq/liter). Answer A. 10 B. 20 C. 30 D. 40 Answer: D 29. The patient takes an overdose of the drug and becomes comatose. His blood pCO₂ was 40mm Hg, art ten minutes ago, but you'll find that it's now 80mmHg. Which of the following statements about this patient is true. A. the pH of his CSF is likely to fall more slowly than the pH of his blood B. the pH of his blood is likely to fall more slowly than the pH of his CSF C. blood pH and CSF will not change because it will quickly eliminate bicarbonate in urine in response to the growth of pCO₂ D. pH blood and CSF will change in a similar degree during this time period. Which of the following statements is true with regard to proximal reabsorption. A. Exchange of NaH₂PO₄ ATPase drives sodium into the cell from the urine of the B. Exchange of Na/H is largely a mechanism by which the secretion of hydrogen ions C. bicarbonate reabsorption does not depend on carbon anhydrase activity D. pH in the lumen of the proximal tubule can reach approximately 5.0: 31. The patient swallows antifreeze and must eliminate the acid ingested. Renal elimination of protons in this excess acid is primarily carried out by which of the following mechanisms. A. Increased release of urinary tract ammonium B. Increased phosphate secretion C. D. Increased concentration of hydrogen sulfide ions in urine E. Increased sulfate secretion in urine Response: A 32. The secretion of renal ammonium ions increases by aldosterone, elevated blood pCO₂ levels and acidemia A. true B. false Answer: A 33. Which of the following statements is correct with regard to the pure collection of hydrogen duct ions secretion. A. It is reduced by increasing the production of renal ammonia B. It increases by increasing sodium reabsorption through the renal sodium channel C. It is not affected by the presence or absence of titrated acids D. aldosterone does not alter the collection of duct ion secretion of hydrogen Answer: B B B

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