

NURS 6010 Exam 5 NEWEST ACTUAL EXAM WITH COMPLETE
QUESTIONS AND CORRECT VERIFIED ANSWERS (DETAILED ANSWERS)
ALREADY GRADED A+ 100% GUARANTEED TO PASS CONCEPTS!!!

How many liters of blood can the kidneys process per day? -

✓✓ANSWER✓✓->>>>>>>>1700 liters

How many liters of urine do the kidneys excrete per day? -

✓✓ANSWER✓✓->>>>>>>>about 1.5 liters

What are the primary functions of the kidneys? - ✓✓ANSWER✓✓-

>>>>>>>-maintain a stable internal environment for optimal cell and
tissue metabolism (regulates BP)

-balance solute and water transport

-excrete metabolic waste products

-conserve nutrients

-regulate serum pH

-performs gluconeogenesis

-forms urine

What is the endocrine function of the kidneys? - ✓✓ANSWER✓✓-

>>>>>>>secretes hormones:

-renin (important for BP)

-erythropoietin

-vitamin D3 (important for metabolism of calcium)

The _____ kidney sits a little lower than the _____ kidney due to being displaced by the overlying liver - ✓✓ANSWER✓✓-

>>>>>>>right; left

The kidneys are supplied by the _____ arteries - ✓✓ANSWER✓✓-

>>>>>>>renal

What amount of the cardiac output will go to the kidneys? -

✓✓ANSWER✓✓->>>>>>>1/4, which is about 600 mL per minute for each kidney

What is the outer layer of the kidney and what does it contain? -

✓✓ANSWER✓✓->>>>>>>cortex - contains glomeruli, most of proximal tubules, and some segments of distal tubules as well

What is the inner part of each kidney and what does it contain? -

✓✓ANSWER✓✓->>>>>>>medulla - contains tubules and collecting duct

What are the regions of the medulla called? - ✓✓ANSWER✓✓-

>>>>>>>renal pyramids

What do the renal pyramids contain? - ✓✓ANSWER✓✓-

>>>>>>>longer loops of henle where the urine is concentrated

What do the renal pyramids open up into? - ✓✓ANSWER✓✓-

>>>>>>>multiple minor calyces --> major calyx --> renal pelvis --> ureter

What is the entry and exit point for the renal artery, renal vein, lymphatic vessels, and ureter called? - ✓✓ANSWER✓✓->>>>>>>renal hilum

What is the functional unit of the kidney? - ✓✓ANSWER✓✓-

>>>>>>>nephron

What are the different types of nephrons? - ✓✓ANSWER✓✓->>>>>>>-

superficial cortical nephrons (outer edge of kidney)

-midcortical nephrons

-juxtamedullary nephrons (lie close to and extend deep into medulla)

What are the important functions of the nephrons? - ✓✓ANSWER✓✓-

>>>>>>>-concentrate urine

-secrete renin

How many nephrons does each kidney contain? - ✓✓ANSWER✓✓-

>>>>>>>1.2 million

What structures does the nephron contain? - ✓✓ANSWER✓✓-

>>>>>>>glomerular capsule/glomerulus --> proximal convoluted tubule --> loop of Henle (descending and ascending loops) --> distal convoluted tubule

What is the arteriole that supplies the glomerulus referred to as? -

✓✓ANSWER✓✓->>>>>>>afferent arteriole

What is the arteriole that returns blood to the systemic vasculature

referred to as? - ✓✓ANSWER✓✓->>>>>>>efferent arteriole

What occurs at the the juxtaglomerular apparatus? - ✓✓ANSWER✓✓-

>>>>>>>-controls renal blood flow

-regulate glomerular filtration

-renin secretion