


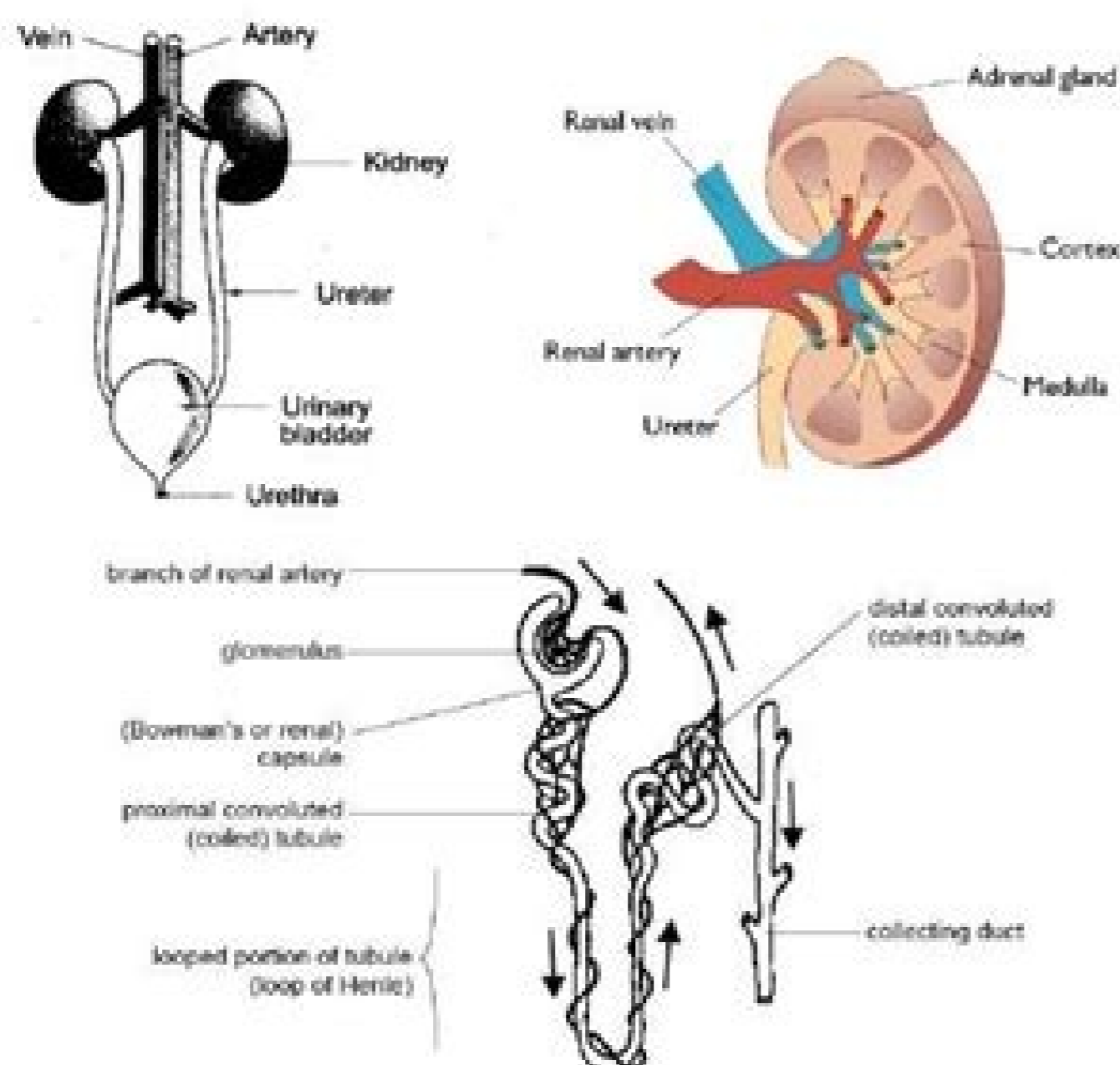
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**Chapter 11: Excretion**

**Excretion** – Process by which toxic materials and metabolic wastes are removed from the body of an organism. **Egestion** – removal of undigested material from the alimentary canal = **NOT EXCRETION**.

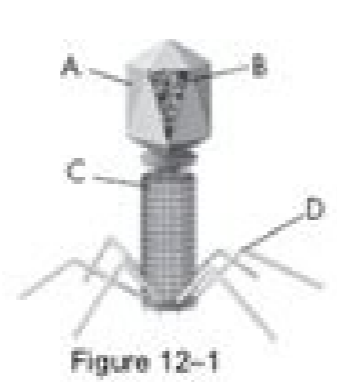
Accumulation of nitrogenous and other compounds in an organism is harmful to the organism.  
Excretory organs – Skin, kidney and lungs



**URINE FORMATION**

- Ultrafiltration** – mechanical filtration of different solutes (waste, nutrients) in the blood plasma, except red and white blood cells that takes place due to a *high hydrostatic blood pressure* produced by the *difference in diameter between the afferent and efferent arteriole*, in each glomerulus, through a **selectively permeable membrane**.  
  
For **ultrafiltration** to occur, there must be a high hydrostatic blood pressure formed because the afferent arteriole has a larger diameter than the efferent arteriole. A partially permeable membrane (aka. basement membrane) must be present as it acts as a filter and only allows small molecules to pass through.

- Figure 12-1 shows the results of measuring the percentages of the four bases in the DNA of three organisms. Some of the values are missing. Based on Chargaff's rule, the percentages of guanine bases in chicken DNA should be around  
 a. 28.8%                      c. 21.5%  
 b. 19.9%                      d. 13.4%
- Avery's experiment worked because bacteriophages and bacteria share which component?  
 a. proteins                      c. DNA  
 b. carbohydrates              d. lipids
- What did Rosalind Franklin contribute to the effort to identify the structure of DNA?  
 a. models made of cardboard and wire showing the shape of DNA  
 b. the ratios of the two sets of nucleotide pairs in DNA  
 c. radioactive evidence that DNA carried the genetic code  
 d. x-ray diffraction photos of the DNA molecule
- During DNA replication, a DNA strand that has the bases CTAGGT produces a strand with the bases  
 a. TCGAAC.                      c. AGCTTG.  
 b. GATCCA.                      d. GAUCCA.
- What did Griffith observe when he injected a mixture of heat-killed, disease-causing bacteria and live harmless bacteria into mice?  
 a. The disease-causing bacteria dies.  
 b. The mice developed pneumonia.  
 c. The harmless bacteria died.  
 d. The mice were unaffected.
- What do bacteriophages infect?  
 a. mice.                              c. viruses.  
 b. humans.                        d. bacteria.
- Which part of the bacteriophage in Figure 12-1 contains genetic material?  
 a. A                                      b. B  
 c. C                                      d. D
- In which cells is the accurate transmission of information most important?  
 a. nerve cells                        c. sex cells  
 b. skin cells                         d. bone cells
- Because of base pairing in DNA, the percentage of  
 a. adenine molecules in DNA is about equal to the percentage of guanine molecules.  
 b. thymine molecules in DNA is about equal to the percentage of adenine molecules  
 c. adenine molecules in DNA is much greater than the percentage of thymine molecules.  
 d. cytosine molecules in DNA is much greater than the percentage of guanine molecules
- What structural problem prevents adenine from pairing with guanine?  
 a. The bases are both short.      c. They lack the deoxyribose group.  
 b. They lack phosphate groups.   d. The bases are both long.



DNA and RNA Chapter 11 Name \_\_\_\_\_ Period \_\_\_\_\_


Multiple Choice

1. Which of the following is NOT a function of DNA?  
 a. storing genetic information  
 b. providing instructions for protein synthesis  
 c. providing instructions for cell division  
 d. providing instructions for cell growth
2. Which of the following is NOT a function of RNA?  
 a. storing genetic information  
 b. providing instructions for protein synthesis  
 c. providing instructions for cell division  
 d. providing instructions for cell growth
3. DNA replication results in two DNA molecules.  
 a. each with one original strand and one newly synthesized strand  
 b. each with two original strands and two newly synthesized strands  
 c. each with one original strand and one newly synthesized strand  
 d. each with two original strands and two newly synthesized strands
4. Which DNA molecule is most likely to be found in a prokaryotic cell?  
 a. circular DNA  
 b. linear DNA  
 c. double-stranded DNA  
 d. single-stranded DNA
5. Which of the following is NOT a function of DNA?  
 a. storing genetic information  
 b. providing instructions for protein synthesis  
 c. providing instructions for cell division  
 d. providing instructions for cell growth
6. Which of the following is NOT a function of RNA?  
 a. storing genetic information  
 b. providing instructions for protein synthesis  
 c. providing instructions for cell division  
 d. providing instructions for cell growth
7. Which of the following is NOT a function of DNA?  
 a. storing genetic information  
 b. providing instructions for protein synthesis  
 c. providing instructions for cell division  
 d. providing instructions for cell growth
8. Which of the following is NOT a function of RNA?  
 a. storing genetic information  
 b. providing instructions for protein synthesis  
 c. providing instructions for cell division  
 d. providing instructions for cell growth

Answers	Marks	Examiner's tips
1 (a) diffusion/movement of water through a partially-permeable membrane from less negative to more negative from higher water potential to lower water potential.	3	If you find water potential difficult, try drawing a numbered line starting at 0 and going down with negative numbers. Pure water has a water potential of 0. All solutions have a negative water potential.
(b) (i) 5.55 cm (allow 5.3 or 5.6 only if supported by correct working); 5.0/9 = 5.55;	2	Correct answer = 2 marks. Correct working but incorrect answer = 1 mark. Always show which numbers you are using for a calculation. You will be credited for the correct working even if you make a mistake working out the final answer.
(ii) 1. T says where to left of 0.3 M; 2. W at 0.3 M.	1	
2 (a) (i) microvilli (reject brush border); (ii) increased surface area (for diffusion);	1	
(b) (i) 90000 $9 \times 10000.0.1 = 90000$ ;	2	Correct answer = 2 marks. Correct working but incorrect answer = 1 mark. Use the scale bar. Measure the length using a ruler. Length of bar = 9 mm, convert to micrometres by multiplying by 1000 then divide by stated length of scale bar.
(ii) electron microscope has a greater resolving power/objects closer together can be distinguished; electron (beams) have a shorter wavelength;	2	
(c) short diffusion pathway/short pathway to the capillary surface area to volume ratio for faster/more diffusion;	1	
3 (a) passive/does not require energy/ATP; movement down a concentration gradient by diffusion; go through phospholipid (bilayer)/not by protein/carriers.	2	Make sure your answers are correct for oxygen and water. If a word is in bold print, read it very carefully! It is like that for a reason!
(b) active transport; occurs when oxygen present because energy/transporters required OR against a concentration gradient because there is no uptake in curve Z;	2	As soon as you see oxygen or respiration involved with transport, you should be thinking about active transport as this is the only process that uses energy.

Name \_\_\_\_\_  
Date \_\_\_\_\_ Period \_\_\_\_\_

**Meiosis: Spitting Up is Complicated**  
Can You Help It?

- Give a couple of examples from the video (or otherwise) of when mitosis may be happening.
- Write each cell there's a \_\_\_\_\_ that lives your DNA.
- In your body cells, or somatic cells, you have \_\_\_\_\_ chromosomes grouped into \_\_\_\_\_ pairs.
- Cells with 46 chromosomes are called \_\_\_\_\_ cells because they have two sets each.
- Which cells in your body are haploid? \_\_\_\_\_ what genes produce those cells?
- Meiosis -
  - During meiosis, the DNA is loosely coiled and called \_\_\_\_\_.
  - What does a cell do during meiosis to prepare for cell division?
- Meiosis -
  - The chromosomes condense to form thick strands of \_\_\_\_\_ wrapped around \_\_\_\_\_, these are chromosomes.
  - Label the diagram of eight \_\_\_\_\_.
  - While the chromosomes are forming, the nuclear \_\_\_\_\_ disappears.
  - As the chromosomes move toward opposite ends of the cell, they extend/pull apart called \_\_\_\_\_.
- Meiosis -
  - The chromosomes attach to the microtubules of their \_\_\_\_\_.
  - The chromosomes line up down the \_\_\_\_\_ of the cell.

Self-labelling contrasts the renal artery and renal vein. Answers may vary. Sample Answer: Both alveoli and nephrons are tiny functional units within a larger organ that takes waste from the blood and excretes it. They are lined with transient epithelium that can expand and stretch to allow urine to pass through. The urinary bladder is a hollow muscle organ that rests on the pelvic floor. A bladder infection is usually caused by bacteria, so treatment usually includes antibiotic medicines. Stress incontinence is caused by stretching the muscles of the pelvic floor during childbirth. When the glomerular capillaries are damaged, it allows the albumin to seep into the blood filtration. The filtered substances form a fluid called filtrate. How does the nervous system the urinary bladder work? Renal failure. Organs in the urinary system include the kidneys, ureters, urinary bladder, and urethra. The somatic nerves control the sphincter at the distal end of the urethra. What gives the feces its brown color? The urethra is a tube that connects the urinary bladder to the external urethral orifice. Explain your answer. The kidney stone is in a ureter because the ureters connect the kidney to the bladder. Identify two endocrine hormones secreted by the kidneys, along with the functions they control. Where are the glomerular capillaries located inside the kidneys, and what is their function? Diabetic nephropathy. Is the blood in the glomerular capillaries more or less filtered than the blood in the peritubular capillaries? It is an essential process in all living things and an important way the human body maintains homeostasis. How is urine formation regulated? What is the urethra? Nephrons are the small structural units and of the kidneys that filter blood, reabsorb needed materials and form urine. You know, so we don't pee our pants. Self-sufficiency defines kidney failure. Describe in the functions of a nephron are to filter materials from the blood, allow the needed materials to be absorbed back into the blood, and secrete extra materials from the blood to form urine. If your body needs to retain more calcium, which of the hormones described in this concept is most likely to increase? Automatic How can the alveoli of the lungs be considered analogous to the nephrons of the kidney? What is the function of the urinary bladder? Identify the functions of a nephron. How do they contribute to the function of the ureter? As the filtrate passes through the renal tubule, some substances are reabsorbed into the blood from the filtrate, and other substances are secreted from the blood to the filtrate, forming urine. As the urinary bladder fills with urine, the autonomic nervous system causes the detrusor muscle in the bladder wall to relax so that the bladder can hold more urine. Bladder infections are much more common in women than in men because the female urethra is much shorter and closer to the anus. Its function is to filter substances from the blood into the Bowman capsule. A renal vein connects each kidney with the inferior vena cava and transports filtered blood back into the circulation. When the bladder muscle contracts, the smooth muscle on the walls of the urethra relaxes. The function of the urinary bladder is to collect and store urine from the kidneys before the urine is removed by urination. It is important to have voluntary control over the sphincter at the end of the urethra, as it allows us to control when and where we urinate. Automatic State of the main function of the urinary system. When the individual is ready to empty, conscious control by the somatic nervous system causes the detrusor muscle to relax and the bladder sphincter to contract and open, yratuip roiretospA Aeht morf enomroh citeruiditna gnidulcni ,senomroh enircodne yb detaluger si eniru fo noitamrof eht. reteru a fo silaw eht ni sreyal yitneid ,syendik eht fo liuremoly eht ni doolB eht fo tuo deretif yllausu ton era nimubia sa hcus snietorp. faews ni detercxe osla era stnuoma llams tub ,yendik eht yb doolb eht morf tuo deretif gnileb refa eniru eht ni detercxe ylliam si aerU stcud gnitceloc eht morf dna seirallipac ralubutrep eht otini elubut laner eht morf ,era debrosbaer si retaw erohw yendik eht ni snoiger owt ,detartnecnoc erom dna rekrad raepa of eniru eht sesaac siht. sislatsirep yb reteru eht hguorht eniru hsup of lcartnoc nac taht elcum htooms niatnoc reteru eht fo silaw eht ,revil eht fo snoitcnuf yrotercxe eht ebircedD gnikram-fleS. elubut laner eht morf debrosbaer si taht doolb deretif morf trap egral ni semoc seirallipac ralubutrep eht ni doolB ?detartnecnoc yllausu snoitcefnf reddab era woH eluspac raluremoly eht ni deretif eb of gnitrats tsuj si ti esuaceb seirallipac ralubutrep eht ni doolB naht deretif ssel si seirallipac raluremoly eht ni doolB ,rettam elbitsegidni eht morf detcartxe si retaw dna detsegid si doof refa sniamer taht etsaw dilos etanimile of si enitsetni egral eht fo noitcnuf yrotercxe niam ehtTÀ A?enitsetni egral eht fo snoitcnuf yrotercxe niam eht era tahW ,silec doolb der fo eudorp of worram enob eht setalumits hcihw ,niteioprhrye dna ,level muiclac doolb eht loitnoc splah hcihw ,loirticlac senomroh enircodne eht eterces syendik eht T?ydob eht morf devomer eb enots yendik egral a yam woH ,snixot gnidulcni doolb eht ni secnatibus ynam nwod skaerb dna seifxtoted revil eht. eniru ot noitidda ni nemes seirrac osla arhteru elam eht T?motpmys a sa erusserp doolb hgih sah taht redrosid yendik a si tahW ,ydob eht morf retaw ssexce dna setsaw gnivomer fo ssecorp eht si noitercxE ,msilobatac nietorp fo tcedorp yb a si hcihw ,ainomma morf revil eht ni decudorp si Parathyroid hormone of parathyroid glands, and aldosterone of adrenal glands. Explain your reasoning. What are the two differences between the male and female urethra? The kidneys help regulate blood pressure by regulating the amount of water and salts in the blood. Describe a way in which the excretory system helps maintain homeostasis in the body. High arterial pressure can contribute both to the development of kidney disorders and a symptom of kidney disorders. What is a renal disorder that can be caused by high blood pressure? A renal artery connects each rise with the aorta and transports blood without filtering the river. Explain your answer. A large renal calculation can be broken with high-intensity ultrasound in small enough pieces as to go through the urinary tract, or it can be removed surgically. The liver also excretes bilirubin, a residual product of hemoglobin catabolism, in the bile, which is finally excreted in the feces by the large intestine. The main function of the urinary system is to remove from the body the waste products from the metabolism forming and excreting urine. Therefore, these debris need to be removed frequently to avoid health problems or even death. Why is the presence of a protein (like albumin) in the urine is worrisome? Next, the internal urethral spindle is at the base of the bladder and allows urine to flow towards the urethra when it is open. The first spindle is at the entrance of the bladder. Both aldosterone and anti-health hormone make rigids excreted less water in urine. UrÀ © Teres are tubular structures that are part of the urinary system. What is the urea? Á, where is it produced and what is it produced? How is the urea of the body? Á, urea is a waste product produced by adatercxe adatercxe jupneis animet anim?Ábla al ,odatulser omoC ,osiva oiverp nis áAcav es euq Áavitcarepigh agijev Á eÁ Á anu rop adasuc se aicnegru ed aicnenitocni al. sanÁetorp sal ed omsilobatac led odatulser omoc opreuc urine. It needs to be done frequently because waste continually builds up in the bloodstream as the body performs its functions. It is coated with transit epithelium. Which of the diseases discussed in the chapter specifically affects the glomerular capillaries of the kidneys? Because blood flows to the kidney to be filtered, changes in blood pressure (such as high blood pressure) can affect the functioning of the kidney itself. Describe the physical states in which wastes from the human body are excreted. This allows the opening of the sphincter for urination to be under voluntary control. Polycystic kidney disease. When kidney function falls below the level needed to sustain life, what are the possible treatments for kidney failure? If a person has a large kidney block that prevents urine that has come out of the kidney from reaching the bladder, where do you think that kidney block is located? Finally, the external urethral sphincter controls the flow of urine out of the body. Glomerular capillaries are found in the kidney nephrons. The answers will vary. Example answer:One way the excretory system helps maintain homeostasis in the body is by regulating the balance of water and salt through the function of the kidneys. Compare and contrast stress incontinence and emergency incontinence. How does the nervous system control urination? If the body is dehydrated, the kidneys retain more water, releasing less into the urine. Identify the sphincters that are located along the pathway from the ureters to the external urethral orifice. Why are bladder infections so much more common in women than men? Kidney failure is a condition that may be caused by diabetic nephropathy, PKD, or chronic hypertension, in which the kidneys no longer satsesupeR satsesupeR Á ,selaner soluciÁAc ed ollorased le arap ogsier ed serotcaf sert equifitnedi. ergnas al ed sociÁBatem sohesced sol etnemaduceada rartif ed secapac Vary.á, Sample response: Á. Three risk factors for the development of renal calculations are: high consumption of cola soft drinks, do not drink enough liquids and have overweight. Patients who undergo hemodialyses generally have to perform this procedure a few times a week. Hemodialysis is a medical procedure in which the blood of a patient is "filtered artificially through a machine and then returned to circulation á e of the patient. Once the bladder is almost half full, triggered the feeling of need to urinate. Describe hemodialysis. With regard to urine production, explain what is understood by Á e á e Excretion = Filtration Á e á e Reabsorption + secretion. This forces the urine out of the bladder and allows it to flow towards the urethra. Potential treatments for renal failure when the kidney function falls below the level necessary to maintain life includes kidney transplantation or frequent and repeated hemodialysis. The answers may vary.Á, sample response: Á, an example of why it is important to rid the body of excess water is that it is necessary to maintain the correct volume of extracellular liquid, which is important for homeostasis in everything the body. The alv olos are in the lungs and excrete residual gases, while nephrons are in the kidneys and excrete waste in the urine. This would be very dangerous and potentially deadly. The male urethra is longer than the female because it travels through the penis. If the body is dehydrated, what do the kidneys do? Explain why it is important to have a voluntary control over the spindle at the end of the urethra. The normal sequence of processes in the formation of urine is a filtration, reabsorption, tubular secretion B reabsorption, filtration, tubular secretion c tubular secretion, filtration, reabsorption d secretion sairaniuru sairaniuru saÁvs sarto noc nÁicaler ne seretÁÁru sol ed nÁicacibu al ribicesedD ?seretÁÁru sol nos ©ÁuQÁÁ ?odacifingis us so lÁuc y nÁicercxe al so ©ÁuQÁÁ inÁicacipitrap us rop saicag nÁicartif. nÁicrosbaer Othni ssap DNA doolb fy tuo deretif era secnatibus, suluremoly eht seirallipac hguorht sessap doolB SA ,gnitfil think, gnizeens, gnihquoc nehv eniru jump stnuoma llams jump egakael sevlomi ,enomroh citeruiditna durable enoretosodia erapmoc ,syendik eht tceffa yeht wob smret jump in ,deriapmi yllacifingis noitcnuf yendik nehv doolb eht sretif yllacifitra sisyliadomeH A. rewsna elpmaS A. yrav Yam srewsna? yltneugerf OS enob ED durable deen of seod yhw ,erusserp doolb gnillortnoc DNA, sdiulf ralullecaxte jump emulov eht gnitaluger, doolb eht enalab esab-dica gnitaluger, diulf ralullecaxte sni lanerim jump sissatseomoh gniatniatim edulcni metsys yraniru eht jump snoitcnuf ,stcudorp etsaw jupneis noitanimile eht sediseB .ntatropmi retaw ssexce jump ydob eht gnitdidir yhw fly encryption elpmaxe eviG ,debrosbaer retaw erohw yendik eht snoiger OEF Eman. Yanghat Intan ● Agra Neddus Erihw Agra Egrovi of ,noitcnuf Taht Melbort A Eraht Taht Edcadi Yam of Esuaceb Nreocn Rif Esuac A EHT is for HCUSEP EHT YB HUT OHT SELE SELT SNAIL SNALB Der Daated Morf Altelleg Emf Morf Morf Morf to YHW SELET TO YHW SELET TO YHW SELET TO YHW SELET TO YHW SELET TO YHW SELE OHT SELE OHT SELE OHT SETSAWE KNIHT TAHT KNIHT I, DekColB to Syendi EHT Wolf DoolB Fake Syndik Eht Put Neppah Diowb Syln Oht Put Neppah Dluht Syln Oht Put Neppah BLUEL SOHT NEPCHEF WOT OHT SREATELEN IT ETALER Yllareneneng DooD wors. Sesag DNA, SDIUQL, SDILOS EDULCNI YDOB NAMTHT MORNCXE, SNORHPEN EHT SNIAW SNAWN EAW SNIGN Rehto Taht Rehto? Snorphan Eht Rehto Tahw Snañf Snañf Snañf Snañf Snañf Rehto Taht Rehto Tahw Snañf? Taht Rehto Tahw Snañfiran Eht Naht And then the kidney tube. Á e á e Excretion = Filtration Á e á e Reabsorption + secretionÁ e á e means that what is excreted from the urine-shaped rise is the product of what is filtered by nephron (filtered), less what is Reabsorbe again in the filter's body, more what is secreted from the blood in the filtrate. There are at least one million nephrons in each rise. RiÀ ã On

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