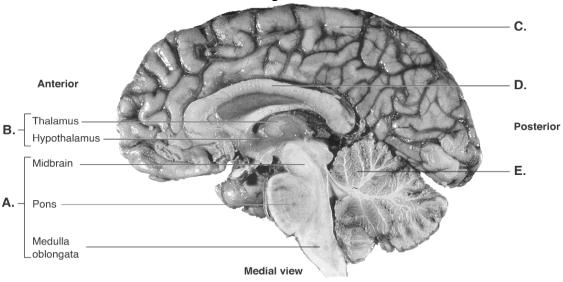
Anatomy & Physiology Spring Benchmark #3 Exam Review

1. If the area of the cerebral hemisphere corresponding to Broca's area is damaged, what is the result?	7. Basal ganglia are located in the and function to
2. Gray matter of the spinal cord is mostly composed of	8. The somatic nervous system consists of nerve fibers that connect the CNS to the
·	whereas the autonomic nervous system consists of fibers
3. In the case of a subdural hematoma resulting from a blow to the head, blood accumulates between	that connect the
the and the	9. The gray commissure of the spinal cord surrounds the
4. An inflammation of the meninges called meningitis most commonly involves the and the	10. The arbor vitae is found in the
	11. Cerebrospinal fluid is produced by
5. Parkinson's disease, which is characterized by slow movements and difficulty initiating voluntary muscular	and it functions to
actions, results from a disorder in	12. The spinal cord in contiguous superiorly with
the	the
6. The right hemisphere of the cerebrum receives sensory impulses originating on the side of the body	13. The thickest of the meninges is the
and vice versa.	14. The sensory root of a spinal nerve is also referred to
	as
C. Spinal cord The McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies, Inc. Permission required for residual to the McGraw-Hill Companies for the McGraw	Skin Skeletal muscle
15. A small lesion in the brainstem which resulted in a rap pressure would probably be located in the	oid heart rate, intense vasoconstriction, and elevated blood
16. The maintains ale	rtness and attention.
17. An individual who has an eating disorder along with int have a dysfunction of the	

19. The large C-shaped mass of white matter that consists of nerve fibers that connect the two cerebral hemispheres is called the ______.

18. The gray matter on the outer surface of the cerebrum is called the _____

Label the identified structures on the diagrams below:



20. The ventricles of the brain contain	·
21. A shallow groove on the surface of the cerebral cortex is called o	ı
22. The primary motor cortex is located in the	lobe.
23. The primary visual area is located in thelobe.	
24. There are pairs of cranial nerves and pairs of spinal n	nerves.
25 Restful activities are governed by the	nervous system

Cho	upter 12: Nervous System III
1.	If you enter a room and smell a strong odor but the odor soon seems to fade away, you have experienced
2.	The olfactory receptors are examples of
3.	What are the primary taste sensations?
4.	The sets of color receptors within the retina are sensitive to lights that are, and
5.	Rhodopsin is found in cells.
6.	Treatment for cataract usually involves removal of the

results from sensory stimulation while

come from the receptors being stimulated

____is a feeling that

__ is the brain causing it to seem to

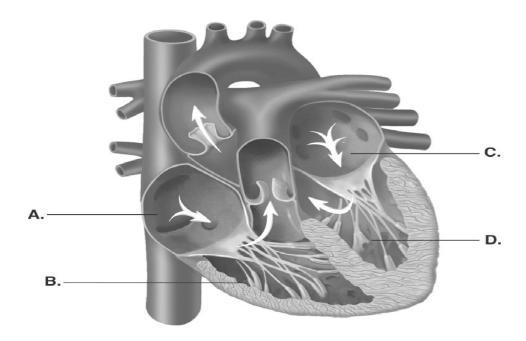
8.	Specialized senses are primarily found in the
9.	The auditory ossicles are located within the ear.
10.	The is a layer of tissue that lines the inner surface of the eyelids and covers the anterior surface of the eye.
11.	Tears contain an that functions to reduce the chances of developing an eye infection.
12.	The sense of taste is called
13.	Palpebrae is another name for the
14.	The glands produce tears.
15.	Explain why a person's nose run when he cries?

the	eardrum to the oval window.
17. The transparent anterior portion of the sclera is the	24. Sensory receptors for balance are found in the
18. The contractile structure that surrounds the pupil is the	25. The sensory cells forare located in the organ of Corti.
19. The area of greatest visual acuity is the	26. The feeling of pain on the body surface that has its origin in an internal organ is called
20. Thecontains no photoreceptor cells.	27. Photoreceptors are located in the
21. Thehelps to hold the lens and retina in place.	28. Changing the shape of the lens to correctly focus light on the retina is called
22. The focuses light on the retina.	29. What is the function of the auditory (eustachian) tube?
23. The,, &	
Chapter 14: Blood 1. The percentage of solids in a sample of human blood is normally about	11. The only formed elements that possess a nucleus when mature are the
2. The biconcave cells in blood that lack nuclei when they are mature are the	12transports oxygen in the blood.
3. Identify the granulocytes and agranulocytes.	13 is needed to produce hemoglobin. 14. In adults, red blood cells are made in the, spend most of their lifespan in the, and most are finally
4. The normal white blood cell count is	destroyed in the
5. The condition called cyanosis is caused by an increased blood concentration of	15 are the largest of the formed elements.
6. Biliverdin and bilirubin are pigments that result from the breakdown of RBCs; biliverdin is in color and bilirubin is in color.	16. The most numerous of the leukocytes is the17. The ability of white blood cells to leave the circulation
7. Compounds produced by the immune system to combat specific antigens are called	and enter tissues is called 18. A person with an increased count
8. Plasma is the while formed elements are the	might be suffering from an allergic reaction. 19. Type blood has both A and B antigens on the RBC's, while type blood has no antigens on
9. The plasma component that forms fibrin, the insoluble protein, in a blood clot is	the RBC's.
10. For a person whose hematocrit is 45%, correct ranking of the components of blood in order of decreasing percent volume is,, &	20. When the oxygen content of the blood is low, is released by the kidneys to increase red blood cell production in the red bone marrow.

	is a type of leukocyte has ase histamine and heparin?	25. Mr. Jones has Type A blood and needs a transfusion. What type(s) could he safely be given?
22 called	are cell fragments and are also 	26. Formation of RBC is initiated by afeedback system whereas the blood clotting process is caused by a feedback system.
* *	letermined by on	•
red blood cells.		 Average life span of a RBC is on average months.
24. Type recipient?	_ blood considered the universal	montris.
•	Cardiovascular System ect sequence of parts through which bloo	d moves in passing from the vena cava to the lungs?
2. Blood from the	e face and scalp is drained by the	vein
3. The blood pres	ssure in the systemic arteries is greates	t during
4. The inner linin	g of the heart is the	
5. The normal pa	cemaker of the heart is the	node.
6. When a person	n's pulse is taken by palpation near the t	humb on the wrist, theartery is being felt.
7. The	circuit sends deoxygenated	blood to the heart.
8. Another name	for the visceral pericardium is the	
9. The	forms the bulk of the hea	rt wall?
10. Blood vessels	enter and exit from the of the h	neart.
11. Blood in the p	oulmonary veins returns to the	
12. The blood ves	ssel carries blood from the left ventricle	e to the body is the
13. In a normal e	lectrocardiogram, the	complex results from ventricular depolarization.
14. What is the o	order of the blood vessels that a red blo	od cell would pass through as the blood leaves the heart,
	ue, and then returns to the heart.	
15. The exchange	e of nutrients and gases between the blo	od and tissue cells is the primary function
of	;	
16. Veins contain	and arteries do not.	
17. Strong, elast	tic vessels that carry blood under high pi	ressure describes
18. The longest v	ein in the body is the	
19. The measure	e of force blood exerts against blood ves	sel walls is
20. Why does th	e left ventricle have a thicker myocardio	al wall? 21. Diastole refers to
22. During the ve	entricular systole, the AV valves	_ and the semilunar valves

23. Sympathetic stimulation of the heart causes the heart rate to		
24. The	artery is usually used to determine blood	d pressure.
25. For a blood pressure reading of 125/86, the 86 represents the		
26. The left side of t	he heart acts as a pump for the	circulation.

Identify the labled structure in the diagrams below:



Chapter 17: Digestive System 1. The material that leaves the mouth and enters the pharynx is called
2. The external surface of the crown of a tooth is covered with the
3. Deep folds in the wall of the stomach called help it to expand to hold food.
4. Gastric glands that secrete HCl are called
5. Food leaving the stomach is called
6. The first portion of the small intestine is the
7. Why are the pancreas and liver referred to as accessory organs?

8. Pancreatic juice and bile are both released into the		
9. The ONLY transports food.		
10. The digests ONLY starch.		
11. The absorbs nutrients.		
12. Chemical digestion begins in the		
 13. Arrange the following structures in order from the small intestine to the rectum. (1) ascending colon (2) descending colon (3) sigmoid colon (4) transverse colon 		
14 emulsifies fats in the small intestine		

15. Damage to the liver would hamper digestion of	22. The parietal cells of gastric glands secrete
16. Bile is produced by cells of the	23 occurs in the digestive tract from the pharynx to the anus.
17. Which layer of the small intestine wall contains cells with microvilli?	
18. The stores bile.	24. The effects of sympathetic nerve impulses on the alimentary canal are and parasympathetic impulses are
19. The salivary glands located just anterior to the ear are the	parasympamene impaises are
20. What are the correct sequence for the layers within the walls of the alimentary canal from inside to	25. Which layer of the alimentary canal is responsible for absorption of nutrients?
outside?	26. What is a function of the large intestine?
21. The root canal of a tooth contains	27. Mixing in the small intestine is accomplished by
Identify the labled structure in the diagrams below: Copyright © The McGraw-Hill Companies, Inc. Permission required for reproduction or display.	28. The epiglottis is attached to the
B C C C C C C AB AB AC	
Chapter 20: Urinary System 1. Urea is a by-product of metabolism	m.
2. When the oxygen-carrying capacity of the blood is low, the kid increase in red blood cell production.	neys release which will cause an
3. The carries urine from the kidney to the	e urinary bladder.
4. The three openings of the bladder form the	·
5. The extends from the urinary black	lder to an external opening?

6. Another name for urination is	15. The network of capillaries that is located in Bowman's capsule is called the
7. The three regions of a kidney are the renal	,
,, and	16. The renal corpuscle consists of the and the
8. The is the functional unit of the	
kidney that produces urine.	17. The amount of filtrate produced per minute is called the
9. The glomerular capsule and both the proximal and distal convoluted tubule are found in the renal	
, while the loop of Henle is found in the renal	18. Kidneys are located behind the peritoneum, which is referred to as
10. Approximately water is filtered by the	19. Urine is stored in the
kidneys per day.	until it is voided from the body.
11. Water and needed nutrients are returned to the blood	20. The process of
in the $_$ tubule.	depends on a a pressure gradient.
12. Significant amounts of protein and are normally NOT found in urine.	21. To some degree the micturition reflex can be voluntarily controlled by contracting the urethral
13. Water makes up approximately percent of the volume of urine.	·
14. Urine drains from the	
into the calyces of the kidney then into	
the renal, and finally exits the kidney	
through the	

Identify the structures in the diagrams below:

