## Cheatography

### Biology Exam 4 Cheat Sheet by TheyCallMeRy via cheatography.com/30883/cs/10054/

Where do RBC, WBC, and		Heart Beat		Urea vs Ammonia		Processes of the Nephron (cont)	
platelets c	come from? bone marrow	Diastole Systole	entire heart is relaxed Atria contract,	Urea	(is from the breakdown of proteins) produced	Reabsorti on	refines the filtrate, reclaims valuable
	bone marrow, (B cells:	Systole	ventricles contract		in the vertebrate liver by combining ammonia and carbon dioxide, less toxic,		solutes (glucose, salt and amino acids) from filtrate, returns these to the blood, most
Platelets	T Cells:thymus gland) bone marrow	Heart Rate	number of beats per minute				
Flow of Blood		Pumping	a series of contraction and relaxation of the		easier to store, highly soluble in water		reabsorption occurs in the PCT
Left Ventricle->Pulmonary Artery- >Lung->Capillaries-> Pulmonary Vein->Left Atrium->Left Ventricle- >Aorta->Aorta Diverges->Blood deliver to upper or lower party->blood returns to the right atrium (upper:superior vena cava/lower:inferior vena cava)->right Ventricle		Cardiac Muscles	heart muscle contract and relax without stimulation	ation JS	poisonous, to toxic to be store in the body, soluble in water, easily disposed of by aquatic animals, results from breakdown of amino	Secretion	substances in the blood are transported into the filtrate.
			from the nervous system (SA node/pace maker)			Excretion	the final product, urine, is excreted via the ureters, urinary bladder
		Output	volume of blood pumped by a ventricle per minute		acids from protein		and urethra
				Fuctional	unit of the Kidney	APC	
3 Kinds of Vessels		Heart Attack		The nephron		a foreign antigen (a nonself	
Arteries	Arteroles	damage or	death of the cardiac	Trace Urine Through the Urinary		molecule) and one of the body's own self proteins, to a helper T Cel	
Veins -Venules Capillaries Capillary Beds		muscle due to blockage of a coronary artery Primary vs. Secondary Immune Response		System		2 Divisions of the Nervous System	
				Glomerular capsule, PCT, descending limb of loop of Henle, ascending limb of loop of Henle, DCT, collecting tubule, papillary			
Veins: bring blood to the heart						central	which consists of the
Pulmonary Vein	from <i>lungs</i> <b>to</b> heart	Primary	occurs upon first exposure to an	duct of ren	nal papillae, minor calyx, /x, renal pelvis, ureter,	nervous system (CNS)	brain and the spinal cord
Superior V Cava	ena from <i>upper body</i> to heart		antigen, slower than the secondary	bladder, urethra		peripheral nervous	consists of nerves and small concentrations of
Inferior Ve Cave	na from <i>lower body</i> to heart		immune response, produces effector	Flow of Filtrate through the Nephron		system (PNS)	gray matter called ganglia.
Arteries carry blood away from the heart			cells and memory cells that may confer lifelong immunity	glomerular capsule, Proximal Convoluted tubule (PCT), Loop of Henle, Distal Convoluted tubule	Myelin		
	Pulmonary away from the heart		memory cells are activated by a	(DCT), Collecting duct		enclose axons, form cellular insulation, speed up signal transmition, is a lipoprotein, is white	
Aorta	away from <i>heart</i> to	away from <i>heart</i> to	second exposure to the same antigen,		s of the Nephron	matter	
	body		initiates a faster and stronger response	Filtration	blood pressure forces water and many small molecules through a capillary wall into the start of the capsular		

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Neurotransmitters		Parts of the brain (cont)		Anatom	Anatomy of a Long Bone		Calcium	
Acetycho line	in the brain and in the synapses between motor neurons and muscle cells	thalmus	(Cerebellum) relay center for most senses deal with both emotions and most senses	Fat- storing central cavity (Medulla	contains yellow marrow (fat)	What does it do?	initiates muscle contaction by moving regulatory proteins away from the actin binding sites	
Biogenic amines	important transmitters in the CNS and include serotonin and dopamine, which affect sleep, mood and attention	medulla oblongata pons midbrain	(Brainstem) controls breathing, heart rate, & swollowing (Brainstem) bridge between forebrain and cerebellum, controls breathing, many important nerves originate here (Brainstem) coordinates visual and auditory reflexes	Cavity) Spongy bone	located at the ends of bones, contains red bone marrow, the site of blood cell production (WBC's, RBC's and platelets)	Where is calcium stored?	endoplasmic reticulum	
Neurope ptides	consist of relatively short chains of amino acids important in the CNS and include endorphins, decreasing our perception of pain					Anaerobic Metabolism vs Aerobic matabolism		
				Joints sutures	allow no movements (ex. skull and pelvis)	Anaerobic The amount of Metabolism energy generated anaerobic metabolism is les		
Nitric Oxide	is a dissolved gas and triggers erections during sexual arousal in	Brain Lobe		ball- and-so cket	allow for the greatest range of motion (ex. shoulder and hip)		than one-tenth of what is produced by aerobic metabolism.	
Axons vs	men Dendrites	Frontal Lobe	(motor) helps plan movements & involved with personality,	hinge joint	uniaxle, allow for movement in one plane (ex. elbow and	Aerobic mataboli	muscle movement	
Axons	passes messages from the cell body to other neurons,		control of emotions and expression of emotional behavior	piviot	interphalangeal) (ex. radioulnar & atlantoaxial)	Motor U	during exercise	
Dendrites	muscles or glands receive messages from other cells	Temporal Lobe	Association center for hearing and smell	Thick vs Thin Filament		consists of a neuron, the set of muscle fibers it controls		
		Occiptal Lobe	Association centers for vision		made of myosin	Fast vs Slow Fibers		
almus p	he brain (Cerebellum) controls pituitary and ANS, therefore controls homeostasis	Parietal Lobe	Association area for touch	t	made of actin(mostly), troponin, tropomyosin binding sites on actin (at rest)	Fast Fibers	high proportioned in fingers and eyes (white fibers)	
		Axial vs Apendicular Skeleton   Axial skull, vertebrae, ribs			,	Slow Fibers	high proportion in postural muscles (red fibers)	
			houlder and pelvic irdles, arms and legs					

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