

### 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	
platelets co	ome from? bone marrow	Diastole	entire heart is relaxed	Urea	(is from the breakdown of	Filtration	blood pressure forces water and
	oone marrow, (B cells: T Cells:thymus	Systole	Atria contract, ventricles contract		in the vertebrate liver by combining ammonia and carbon dioxide, less		many small molecules through a capillary wall into the start of the capsular space
Platelets	gland) bone marrow	Heart Rate	number of beats per minute				
Flow of Blood  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		Pumping	a series of contra- ction and relaxation of the heart muscle	Ammonia	toxic, easier to store, highly soluble in water	Reabso- rtion	refines the filtrate, reclaims valuable solutes (glucose, salt and amino acids) from filtrate, returns these to the blood, most reabsorption occurs in the
		Cardiac Muscles	without stimulation from the nervous system (SA node/pace maker)		poisonous, to toxic to be store in the body, soluble in water, easily disposed of by aquatic animals, results from breakdown of amino		
		Cardiac Output	volume of blood pumped by a ventricle per minute			Secretion	PCT substances in the blood are transp-
3 Kinds of Vessels		Heart Attack		acids from protein			orted into the filtrate.
Arteries Veins	Arteroles -Venules	_	damage or death of the cardiac muscle due to blockage of a		Fuctional unit of the Kidney  The nephron		the final product, urine, is excreted
Capillaries Capillary Beds  Veins: bring blood to the heart		Primary vs. Secondary Immune		Trace Urine Through the Urinary System Glomerular capsule, PCT, descending limb of loop of			via the ureters, urinary bladder and urethra
Pulmonary from lungs to  Vein heart		Response  Primary occurs upon first				APC	
Superior Vena Cava Inferior Ve Cave	from <i>upper body</i> a <b>to</b> <i>heart</i>	· ·······ary	exposure to an antigen, slower than the secondary immune response,	Henle, asc Henle, DC papillary di minor caly	cending limb of loop of T, collecting tubule, uct of renal papillae, x, major calyx, renal	a foreign a	ntigen (a nonself and one of the body's oteins, to a helper T
Arteries carry blood away from the heart			produces effector cells and memory cells that may	Flow of Filt	ter, bladder, urethra	2 Divisions of the Nervous System	
Pulmonary Artery	away from the  heart to the lungs		confer lifelong immunity	Convoluted of Henle, D	capsule, Proximal d tubule (PCT), Loop Distal Convoluted T), Collecting duct	central nervous	which consists of the brain and the
Aorta	away from <i>heart</i> to body	Secondary	memory cells are activated by a second exposure			system (CNS)	spinal cord
						peripheral	consists of nerves



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to the same

response

antigen, initiates a

faster and stronger

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nervous

system

(PNS)

and small concen-

trations of gray

matter called

ganglia.

# Cheatography

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#### Myelin Parts of the brain Axial vs Apendicular Skeleton Thick vs Thin Filament enclose axons, form cellular hypoth-(Cerebellum) skull, vertebrae, ribs made of myosin Axial Thick insulation, speed up signal almus controls pituitary Apendi shoulder and pelvic Thin made of actin(mostly), transmition, is a lipoprotein, is and ANS, therefore cular girdles, arms and legs troponin, tropomyosin white matter controls homeosbinding sites on actin (at Anatomy of a Long Bone **Neurotransmitters** thalmus (Cerebellum) relay Fat-stcontains yellow Calcium center for most Acetycin the brain and in marrow (fat) oring senses deal with holine the synapses central What initiates muscle both emotions and between motor cavity does it contaction by moving most senses neurons and muscle (Medullary do? regulatory proteins cells medulla (Brainstem) Cavity) away from the actin Biogenic oblongata controls breathing, important transmbinding sites located at the ends Spongy heart rate, & amines itters in the CNS and bone of bones, contains Where endoplasmic swollowing include serotonin and red bone marrow, is reticulum dopamine, which pons (Brainstem) bridge the site of blood calcium affect sleep, mood between forebrain cell production stored? and attention and cerebellum, (WBC's, RBC's Anaerobic Metabolism vs controls breathing, Neuropconsist of relatively and platelets) many important eptides short chains of amino Aerobic matabolism nerves originate acids important in Anaerobic The amount of here the CNS and include Metabolism sutures allow no movements energy generated endorphins, midbrain (Brainstem) coordiby anaerobic (ex. skull and pelvis) decreasing our nates visual and metabolism is ball-aallow for the greatest perception of pain auditory reflexes less than onend-range of motion (ex. Nitric is a dissolved gas tenth of what is socket shoulder and hip) **Brain Lobes** Oxide and triggers produced by hinge uniaxle, allow for erections during aerobic metabo-Frontal (motor) helps plan joint movement in one sexual arousal in Lobe movements & plane (ex. elbow and men involved with Aerobic provides most of interphalangeal) personality, control matabolism the ATP used to piviot (ex. radioulnar & of emotions and power muscle atlantoaxial) expression of movement during Axons passes messages emotional behavior from the cell body to exercise other neurons, Temporal Association center **Motor Unit** muscles or glands Lobe for hearing and smell **Dendrites** receive messages consists of a neuron, the set of from other cells Association centers Occiptal muscle fibers it controls for vision Lobe Parietal Association area for Lobe touch



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

### Fast vs Slow Fibers

Fast high proportioned in Fibers fingers and eyes (white

fibers)

Slow high proportion in

postural muscles (red

fibers)

C

Fibers

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