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)		
RBC bon	atelets come trom? BC bone marrow		entire heart is relaxed Atria contract,	Urea	(is from the breakdown of proteins) produced	Reabsorti on	refines the filtrate, reclaims valuable	
WBC bon T C Platelets bon	e marrow, (B cells: ells:thymus gland) e marrow	Heart Rate	ventricles contract number of beats per minute		by combining ammonia and carbon		and amino acids) from filtrate, returns these to	
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	Ammonia	poisonous, to toxic to be store in the body, soluble in water, easily disposed of by aquatic animals, results from breakdown of amino acids from protein	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	
		Cardiac Output	volume of blood pumped by a ventricle per minute				and urethra	
				Fuctional unit of the Kidney		APC		
3 Kinds of Vessels		Heart Attack		The nephron		a foreign antigen (a nonself		
Arteries	Arteries Arteroles		damage or death of the cardiac		Trace Urine Through the Urinary		own self proteins, to a helper T Cel	
Veins Capillaries	-Venules Capillary Beds	muscle due coronary ar	e to blockage of a tery	Glomerular	capsule, PCT,	2 Divisions of the Nervous		
Vaiva, kuing kland ta tha kang		Primary vs. Secondary Immune		descending limb of loop of Henle,		System		
Pulmonary Vein	from lungs to heart		ry occurs upon first	DCT, collect duct of rena major calyx	ting tubule, papillary al papillae, minor calyx, c, renal pelvis, ureter,	central nervous system (CNS)	which consists of the brain and the spinal cord	
Superior Vena Cava	from <i>upper body</i> to heart		antigen, slower than the secondary immune response, produces effector	bladder, ur	ethra	peripheral	consists of nerves and	
Inferior Vena Cave	from <i>lower body</i> to heart			Flow of Filtrate through the Nephron		nervous system (PNS)	small concentrations of 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 a Artery to	way from the <i>heart</i> o the <i>lungs</i>	Secondary	memory cells are activated by a second exposure to	(DCT), Coll	ecting duct	enclose axons, form cellular insulation, speed up signal transmition, is a lipoprotein, is white		
Aorta away from <i>heart</i> to <i>body</i>	the same antigen, 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	matter				

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Neurotransmitters		Parts of the brain (cont)		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 (Medullar	contains yellow marrow (fat) 'Y	What i does it d do? i	initiates muscle contaction by moving regulatory proteins away from the actin binding sites
Neurope ptides	in the CNS and include serotonin and dopamine, which affect sleep, mood and attention consist of relatively short chains of amino acids important in the CNS and include endorphins, decreasing our perception of pain is a dissolved gas and triggers erections during sexual arousal in	medulla oblongata	(Brainstem) controls breathing, heart rate, & swollowing	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 e is calcium	endoplasmic reticulum
		pons	(Brainstem) bridge between forebrain and cerebellum, controls breathing, many			stored? Anaerobic Aerobic m	: Metabolism vs latabolism
		midhunin	important nerves originate here (Brainstem) coordinates visual and	Joints		Anaerobic Metabolism	The amount of energy generated by
		midbrain		ball- and-so cket	Illow no movements (ex. kull and pelvis)		anaerobic metabolism is less than one-tenth of what is produced by aerobic metabolism.
Oxide		Brain Lobe	auditory reliexes		allow for the greatest range of motion (ex. shoulder and hip)		
men Axons vs Dendrites		Frontal Lobe	(motor) helps plan movements & involved with personality,	hinge joint	uniaxle, allow for movement in one plane (ex. elbow and	Aerobic matabolism	provides most of the n ATP used to power muscle movement
Axons	s passes messages from the cell body to other neurons,		control of emotions and expression of emotional behavior	piviot	interphalangeal) (ex. radioulnar & atlantoaxial)	Motor Unit	t
Dendrites	muscles or glands receive messages	Temporal Lobe	Association center for hearing and smell	Thick vs Thin Filament		consists of a neuron, the set of muscle fibers it controls	
	from other cells	rom other cells Occiptal Lobe		Thick ma	nade of myosin	Fast vs Sl	ow Fibers
Parts of th hypoth ((almus pi th h	he brain (Cerebellum) controls pituitary and ANS, therefore controls homeostasis	Parietal Lobe	Association area for touch	trin ma trc bii re	made of actin(mostly), proponin, tropomyosin pinding sites on actin (at rest)	Fast hi Fibers fir fik	gh proportioned in ngers and eyes (white pers)
		Axial vs Apendicular Skeleton Axial skull, vertebrae, ribs				Slow hi Fibers m	gh proportion in postural uscles (red fibers)
		Apendi s cular g	houlder and pelvic irdles, arms and legs				



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