

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

Where do R	BC, WBC, and	Heart Bea		Urea vs Ar	mmonia	Processes	of the Nephron
platelets cor	ne from? cone marrow	Diastole	entire heart is relaxed	Urea	(is from the breakdown of proteins) produced in the vertebrate liver by combining ammonia and carbon dioxide, less	Filtration	blood pressure forces water and many small molecules through a capillary wall into the start of the capsular space
	cells: T Cells:thymus	Systole	Atria contract, ventricles contract				
`	gland) pone 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	contract and relax 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			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		Primary vs. Secondary Immune			e Through the Urinary		via the ureters, urinary bladder and
Veins: bring blood to the heart		Response		System Clamarular cancula DCT			urethra
Pulmonary Vein	from <i>lungs</i> to <i>heart</i>	Primary occurs upon first exposure to an antigen, slower than the secondary		Glomerular capsule, PCT, descending limb of loop of Henle, ascending limb of loop of Henle, DCT, collecting tubule, papillary duct of renal papillae, minor calyx, major calyx, renal		APC	
Superior Vena Cava Inferior Vena	from upper body to heart a from lower body					a foreign antigen (a nonself molecule) and one of the body's own self proteins, to a helper T Cel	
Cave	to heart		immune response,	pelvis, ureter, bladder, urethra			
Arteries carry blood away from the heart		produces effector cells and memory		Flow of Filtrate through the		2 Divisions of the Nervous System	
Pulmonary Artery	away from the heart to the lungs		cells that may confer lifelong immunity	_	capsule, Proximal		which consists of the brain and the
Aorta	away from <i>heart</i> to	Secondary	-	Convoluted tubule (PCT), Loop of Henle, Distal Convoluted tubule (DCT), Collecting duct		system (CNS)	spinal cord
	-		second exposure to the same antigen, initiates a			peripheral nervous system	consists of nerves and small concen- trations of gray



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faster and stronger

response

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(PNS)

matter called

ganglia.

Cheatography

Myelin

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Axial vs Apendicular Skeleton

enclose axons, form cellular insulation, speed up signal transmition, is a lipoprotein, is white matter		hypoth- almus	(Cerebellum) controls pituitary and ANS, therefore controls homeos-	Axial	skull, vertebrae, ribs	Thick ma	ade of myosin
				Apendi	shoulder and pelvic girdles, arms and legs	tro	ade of actin(mostly), ponin, tropomyosin nding sites on actin (at
Nametrana			tasis	Anatomy	of a Long Bone	res	st)
Acetyc- holine	in the brain and in the synapses between motor neurons and muscle	thalmus	(Cerebellum) relay center for most senses deal with both emotions and most senses	Fat-st- oring central cavity	contains yellow marrow (fat)	does it	initiates muscle
Biogenic	cells	medulla oblongata	(Brainstem) controls breathing,	(Medulla Cavity) Spongy	located at the ends of bones, contains red bone marrow, the site of blood cell production (WBC's, RBC's	aı	egulatory proteins way from the actin nding sites
amines		pons	heart rate, & swollowing (Brainstem) bridge between forebrain and cerebellum, controls breathing, many important nerves originate here (Brainstem) coordinates visual and	bone			endoplasmic reticulum
Neurop- eptides	consist of relatively short chains of amino acids important in the CNS and include endorphins, decreasing our				and platelets)	Anaerobic Metabolism vs Aerobic matabolism	
				Joints sutures ball-a-	allow no movements (ex. skull and pelvis)	Anaerobic Metabolism	The amount of n energy generated by anaerobic metabolism is
Nitric	perception of pain is a dissolved gas	auditory reflexes		ball-a- allow for the greatest nd range of motion (ex. socket shoulder and hip)	less than one- tenth of what i		
Oxide	and triggers erections during sexual arousal in men	Frontal Lobe	(motor) helps plan movements &	hinge	uniaxle, allow for movement in one plane (ex. elbow and		produced by aerobic metabolism.
			involved with personality, control of emotions and expression of	piviot	interphalangeal) (ex. radioulnar &	Aerobic matabolism	provides most of the ATP used to
Axons vs Dendrites Axons passes messages				- FIVIOR	atlantoaxial)		power muscle movement during
	from the cell body to other neurons, muscles or glands	Temporal Lobe	Association center for hearing and			Motor Unit	exercise
Dendrites	receive messages from other cells	Occiptal	smell Association centers				a neuron, the set of ers it controls
		Lobe Parietal Lobe	for vision Association area for touch				
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Fast vs Slow Fibers

Fast high proportioned in Fibers fingers and eyes (white

fibers)

Slow high proportion in

Fibers postural muscles (red

fibers)

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