

Cheatography

anatomy2 Cheat Sheet

by lalax0 via cheatography.com/20166/cs/3012/

chapter1	chapter2	chapter3 (cont)	chapter4 (cont)
<p>histology:microscopic anatomy cytology: study of cells physiology: study of diseases</p> <p>[^]2. begin with subatomic particles: atom molecules macromolecules organelles tissues organs systems organisms 3 two organs in lymphatic and nervous system: lymphatic tonsils/spleen protects from disease nervous brain/spinal cord direct stimuli 4 define homeostasis range of values where life exists post increase rate of change neg reversal trend 4 name and planes transverse horizontal, frontal coronal, sagittal front, 5 three body cavities thoracic pleura, heart pericardial, lung peritoneal 6 mediastium in pleura cavity separate left and right lung reduces friction lung expands/recoils 7 diff diagnostic ct computed tomography 3d images of body mri magnetic resonance imagery different organ structures[^].</p>	<p>1.what type of bond is between sR and none sR is cation 4.react with one another? to become more stable</p> <p>5. two strong ionic bonds, covalent 6. two weak hydrogen, van der wall 7. oil in water oil is hydrophobic and nonpolar more attracted to self than water molecules 8. categories of lipids fat oils waxes fatty acids & glycerides</p>	<p>denaturation change in structure of enzyme/change in temp PH yes, if not too much damage has been done</p> <p>8. nucleic acid dna-double helix has agt RNA-single stranded has u instead of t 9. metabolic turnover removal of chemical structures in a cell 1 phospholipids in neuron 2. enzymes in liver 10. phosphorylation & cellular energy phos is the adding of a phosphate E+adp+po4---atp</p> <p>11. omega fatty is an unsaturated fatty acid named from the left 13. cell membrane po4==po4c phospholipid=backbone protein=transport ch20-ID cholesterol=flexibility[^].</p>	<p>4. different tumors benign-c malignant spreads in 2. diapedesis into bV: diapedesis 5 angiogenesis stem cell=mesenchyme replace damaged tissue unequal concentration to move 7. cellular division 2. prophase-mvnt chromosomes 3. metaphase-chromosome separation 4. anaphase-chromosomes 5. telophase 6. cytokinesis 8. epithelial cell layer 4. regeneration protect skin stratified kidney simple, colum</p>
	<p>chapter3</p> <p>[^]1. define general endothermic atp creates po4 turns into adp 2. eicosanoids response to inflammation 1 prostaglandin 2 leukotriene 3 sterol 6 6 6 5 estrogen, testosterone, cholesterol, cortisol 4 phospholipid phosphatethat bonds a diglyceride to a nonlipid 1 glycolipid 2 lipoprotein 5 basic protein primary-aa sequence secondary-pleated helical tertiary-complex folding quaternary-groups of 3d 6 cofact&coenzyme cof=mineral ce=vitamins 7.</p>	<p>chapter4</p> <p>[^]1. cellular respiration w/o oxygen anaerobic pyruvate can be used or lactic acid--atp for cell function 2. protein synthesis translation-mRNA+ribosomes+trna>protein transcription gene>mRNA 3. movement cell membrane determined by permeability diffusion is passive process and will move from high conc to low conc.</p>	<p>chapter5</p> <p>2. transitional epithelium 3 layers damage -urinary bladder, epidermal and basal sublayer kocytes monocytes: phagocytosis, neutrophils, basophils: plasma cells that persist in adult stage 9. three processes migration 10. types of muscles</p>



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cheatography.com/lalax0/

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Page 1 of 3.

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chapter5 (cont)	chapter6 (cont)	chapter8	chapter9
straiton,ic- disc,branch,- neuro sk x-- ach smoxxx ache/e card- --	layersofepidermis 1corneum-thick, thin skin 2lucid- eum-thick skin palm/sole 3granulom-superficialtospin 4spinousum-superbasal 5basal-innermost epidermal layer 3.skincancer malignant melanoma,basal,squ- amous 4.abcd asym,bord,colo,diameter 5.2fxnegf 1duodenum, salivary glands 2accelerating production of keratin -stimulatin epidermal develop 6.stretch- marks exceeded elastin fibers 7.hairs vellus-peach terminal-coarse 8.sebaceous lubricate skin, waterp- roofskin,defenseagainstdisease 9.2sweatglands apocrine-secrete productinto hairfollicle merocrine-se- crete onto skin 10.granulationtissue fibrobast>macro- phage>capillarynetwork cell 12.injuryrepairsequence 1invasionofmasscells 2bloodclotforms 3growthbasal cell 4basal cell adhere to 5phagocytic cell 6heali- ngscab 8.primarysecondaryintention 1w/sutureoptob- ottom 2w/osuturebottomup^.	1.clubfoot congenitaltalipesequinovarus cx abnormal muscle devleopm tx cast,surgery 2.3typesofjoints norange-synarthro- sis-fibrousartilidge-suture some-amp-fibrcart-syndesmasis&sy- mphasis free-di-synovial-hip 4.3fxnsynovialfluid 1lubrication 2nutrientdistribution 3shockabsorption-cushionjointexposed- toshock 5.sprain/strain sp-ligament torn st-lig stretched 6.buni- on&bursa bunion-baseofbigtoe bursa-degenerativejoint disease bursitionoftoeisbunion 7.4typesofsynoviajoint 1hinge-monoaxia- l-anke 2pivot-mono-radial saddle-bi-carpometacarpal 4ball-soc- ket-triaxial-hip 8.probsivdisc slippeddisc-nucleuspomposis compressed, distortsanularfibrosis, partway vertebral canal herniated disc-nucleuspomposis breaksthru anular fibrosis portrudes vertebralcanal 9.3ligamentsebelow 1radialcollateral 2ulnalc 3anular 10.3lighip 1iliofemoral 2ishifemora 3pubof- emoral 11.diseasesaffectjoint 1rheumatoid arthritist-autoimm- uneattacksjointcapsule 2gouty-uricacidinsynovialfluid 3osteoart- ritis-degenerativejointdisease.	^1.neurotransmitt herine-cardiac/sm 1producesskeleta 3mainbodytemp 4 ncesexits 4.embr ll-tissue=myobla fmuscletriad 2terr impulses run dow ca2+ and contrac oldfactinstrandto mentproperalignn nduremusclecont 1achreleased 2pc 4cabindtotropone myosin, leaveacti nbind 9.twitch-co ncrease immedia
chapter6 ^1. list4f- uxnskin 1protect of tissue- s/organs 2excre- tions of salts/- water 3storagel- lipids 4detection of senses vitamind promotes absorp of calcium blood+liv- er>kid- ney>actie vit d>g- ut>ca2+ absorption 2.	chapter7 1.6typesofbone 1long-femur 2short-scaphoid 3flat-scapulae 4irreg- ular-hyoid 5sesamoid-patella 6sutural-crani 3.matrix comesfrom- bonemarrow, called hydroxyapatite 4.spongybone trabeculae 5.twoossification intracartilagenous-bonereplacescartilage intram- embranous-bonedevelopsfrommesenchymal/ fibrousc 6.homeost- asisbloodcalcium parathyroid pth and calitonin help regulate calcit- onin-thyroid-inhibit osteoc, stimul osteob (vbcl) pth-parathyroid-op- posite 7.6fractures 1transverse-breakshaft 2greenstick-bro- ken,bent 3displaced-misalignment 4spiral-twisted 5potts-twobreak 6cottes-distal displacedhardest 8.rickets&scurvy r-bone malasia looksfinebutflexibl scurvy-lossofbonemass/strength 9.tmj muscle- spasm>misalignmet>pain> musclespasm 10.3sinuses 1frontal 2sphenoid 3ethenoid 1immunology 2lightenskullbone 3humidifier 11.fasle rib ribsnotattachedsternum 8-12 12.mfpelvis apperance inlet illiac m-narrow, heart shaped, deep f-braod, oval, shallow		

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chapter9 (cont)

summation-stimbs4therefractoryperiodends teatnus-maximumforce 11.cpaffectmusclecontraction -donates phosphate to adp creates atp atp help binds extend/staytogether for a contraction 12.causeparalysis botulism--noach chlostridium botulinum myatheniagravis-noreceptorache chlostridium tetani^.

chapter10

1.4waysorganizemusclefiber 1parallel-bicepsbrachi 2convergent-pectoralismuscle 3unipennate-extensor digitorium 4bipennate-rectusfemoris 2.3classesoflevers 1vload fulcrum vaf neckexten 2vl ap ankleexten 3fafvl bicep brachiflex 3.6eyemuscles 1inferior down niii 2anterior rectus up NVI 3medial middle nvii 4lateral lateral nvi 5inferior oblique rollupdown niii 6superioroblique rolldownlateral niv 4.herniacauseloc viscerl org abnormally protruding thru an opening in muscular wall caux increased force, in pressure, weak cT 3loc inguinal,umbilical,ivdisc 5.retinaculum broad band of ct tendons pass under it hold tendons in place 6.hamstrings bicepfemoris,semimembranous,semitendinous quads vastusmedialis,vintermediarius,lateralis,rectusfemoris rotatorcuff supraspinatus,infraspinatus,teresminor,subscapularis 7.ischemia/hypoxia is-restrict/dec bloodflow to tissue hyp-decrease o2 in tissue 9.organellmitosis centrioles location=olfactory / hippocampus 10.4structuralclassificationsneurons 1multipolar 2bipolar 3unipolar 4anapolar 11.stepsneuralregeneration 1invasionmacrophages 2formofneuraltubeby schwann cells 3regrowthofaxon 12.neurogliaCNS 1ependymalcells-produce csf 2astrocytes-producebbb 3oligodendrocytes-myelin 4microglial-phagocytosis

chapter11

2.4ionchannels 1voltagegatedchanne-changetransmembranepotential 2mechanicalgatedchannel-changeinphysicaldistortionofmembranesurface 3leakchannel-alwaysopenbinds tospecificfibers 4ligand-bindspecificchemicals 3.3diffbetweengradedresponse g /localized 2rateofchange 3changesacrossmembranepotential a/p/1restingleakchann 2depolariz 3hyperpolar 4.hyperpolarization resetting for another ap, cell become neg, two ion mvm 5.summation summing (+)(-)from dendritestoseeifreachesthresholdtostartap @ axon hillock 6.initialsegfx at axon hillock 7.refractoryperiodneuron 8.saltatoryconduction jumping of ap from nodeonode bc no na under myelin occurs @ nodes of ranvier 9.typesofneurons afibers-largestmyelinatedaxon bodyposition bfibers-smaller myelinated pain cfibers-smallestunmyelinated pain 10.chemical&electricalsynapse c-neurotransmitter to sendmessages exneuromuscular jnx e-nosynaptic gap so the ionic flow exthe eye 11.neuromodulator n-modifiesthereleaseoftheneuroptransmitters inhibits release stimulate ca2+ opiods= 1endorphins 2endomorphins 3dynorphins 4enkephalins substance p.

chapter12

^1.directandindirect d-ligandbindrotein channelopens in-ligandatator,activatesGprotein,gtp>adenc>cAMPopensproteinchannel 2.3nsmitters aminoacid:glycine,direneuropeptide:endorphines,inalamus purine:adenosine,indireynapticinhi/fac pi:when ca2+is irreleases it lessens the amnt of r pf: when there is an influx of ca2+neurtransm is greater 4.spatial-temporal-onesynapse 6.plexus inetworkingofnerves 4componenstions,cords adv:overlappingfxn sbrachialplexus c4-c8,t1 1supra subscapularis 2dorsalc5 thalam cc5-c7omohyoid 4pectoralc5,t1 8.segmentslumbarplexus t12,l1-2obtulatoradductorhips 3sapher L2-l4 9.neuralcircuits 1converga 3serial 4parallel 5reverberation 10.spindle fxmuscltone -intrafusurants-sensoryneurons 11.



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