

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel ia membranul i Senebis?

- \\ l izosoma
- \\ mikromil aki
- \\ mikrofil amenti
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel ia membranul i Senebis?

- \\ peroqsisoma
- \\ centriol i
- \\ mikromil aki
- \\ Sual eduri fil amenti

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel ia membranul i Senebis?

- \\ mitoqondria
- \\ centriol i
- \\ bazal uri sxeul aki
- \\ mikromil aki

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel i ar aris membranul i Senebis?

- \\ l izosoma
- \\ mitoqondria
- \\ endopl azmuri bade
- \\ centriol i

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel i ar aris membranul i Senebis?

- \\ mitoqondria
- \\ l izosoma
- \\ peroqsisoma
- \\ bazal uri sxeul aki

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel i ar aris membranul i Senebis?

- \\ endopl azmuri bade
- \\ gol j is aparati
- \\ mikrofil amenti
- \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel i ar aris membranul i Senebis?

- \\ gol j is aparati
- \\ centriol i
- \\ l izosoma
- \\ birTvis garsi

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel ia membranul i Senebis?

- \\ gol j is aparati
- \\ bazal uri sxeul aki
- \\ centriol i
- \\ ribosoma

\\\\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs energiis warmoqmnaSi?

- \\\\ endopl azmuri bade
- \\\\ gol j is aparati
- \\ mitoqondria
- \\\\ l izosoma

\\\\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs daSl is procesSi?

- \\ l izosoma
- \\\\ mitoqondria
- \\\\ peroqsisoma
- \\\\ ribosoma

\\\\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs cil is sinTezSi?

- \\\\ gol j is aparati
- \\\\ l izosoma
- \\ ribosoma
- \\\\ peroqsisoma

\\\\ qvemoT CamoTvl il i struqtuebidan romel i uzrunvel yofs citopl azmuri cil ebis daSl as?

- \\\\ gol j is aparati
- \\\\ centriol i
- \\ proteasoma
- \\\\ ribosoma

\\\\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs uj redSi warmoqmnil i nivTierebebis daxarisxebaSi?

- \\\\ ribosoma
- \\\\ l izosoma
- \\ gol j is aparati
- \\\\ mitoqondria

\\\\ qvemoT CamoTvl il i uj redul i struqtuebidan romel i monawil eobs j angvis procesSi?

- \\ mitoqondria da peroqsisoma
- \\\\ mitoqondria da l izosoma
- \\\\ l izosoma da peorqsisoma
- \\\\ l izosoma da centriol i

\\\\ qvemoT CamoTvl il i organel ebidan romel Si warmoiqmneba l izosomebi?

- \\\\ marcvl ovani endopl azmuri bade
- \\\\ gl uvi endopl azmuri bade
- \\ gol j is kompl eqsi
- \\\\ mitoqondria

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs gol j is kompl eqsi?

- \\\\ gayofis TiTistaras warmoqmna
- \\\\ uj redidan Warb wyl is gamoyofa
- \\\\ atf-s warmoqmna
- \\ saeqsporto nivTierebebis daxarisxeba

\\\\ qvemoT CamoTvl il i organel ebidan romel i iqmneba mikromil akebiT?

- \\ centriol i
- \\\\ mitoqondria
- \\\\ endopl azmuri bade
- \\\\ gol j is kompl eqsi

\\\\ qvemoT CamoTvl il i organel ebidan romel i iqmneba mikromil akebiT?
\\ bazal uri sxeul aki
\\ peroqsisoma
\\ mitoqondria
\\ l izosoma

\\\\ qvemoT CamoTvl il i uj redul i struqtarebidan romel i iqmneba mikromil akebiT?
\\ wamwami
\\ proteasoma
\\ transportul i buStukebi
\\ Sual eduri fil amentebi

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs mikromil akebi?
\\ uj redidan Warbi wyl is mocil eba
\\ gayofis TiTistaras warmoqmna
\\ atf-s sinTezi
\\ saeqsporto nivTierebebis daxasiaTeba

\\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs ribosoma?
\\ proteol izi
\\ atf-s warmoqmna
\\ l ipidebis Jangva
\\ cil ebis sinTezi

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs birTvaki?
\\ citopl azma
\\ mitoqondria
\\ birTvi
\\ endopl azmuri bade

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs gol j is aparati?
\\ kariopl azma
\\ citopl azma
\\ birTvi
\\ mitoqondria

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mikromil akebi?
\\ birTvi
\\ citopl azma
\\ mitoqondria
\\ uj redis garsi

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs qromosomebi?
\\ birTvi
\\ citopl azma
\\ gol j is aparati
\\ mitoqondria

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mikrofil amentebi?
\\ citopl azma
\\ birTvi
\\ gol j is aparati
\\ endopl azmuri bade

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs proteasomebi?

- \\ \\ birTvi
- \\ \\ citopl azma
- \\ \\ mitogondria
- \\ \\ endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs l izosomebis warmoqmnaSi?

- \\ \\ mitogondria
- \\ \\ uj redis centri
- \\ \\ gol j is parati
- \\ \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i struqtur ebidan romel i qmnis gayofis TiTistaras?

- \\ \\ mikromil akebi
- \\ \\ mikrofil amentebi
- \\ \\ Sual eduri fil amentebi
- \\ \\ proteasomebi

\\ \\ \\ ramdeni uj redi mi iReba mitozis Semdeg?

- \\ \\ erTi
- \\ \\ ori
- \\ \\ sami
- \\ \\ oTxi

\\ \\ \\ qvemoT CamoTvl il i el ementebidan romel i qmnis qromosomebs?

- \\ \\ rnm da dnm
- \\ \\ dnm da cil a
- \\ \\ cil a da rnm
- \\ \\ rnm da l ipidebi

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i qmnis mikromil akebs?

- \\ \\ tubul ini
- \\ \\ aqtini
- \\ \\ desmini
- \\ \\ vimentini

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i qmnis mikrofil amentebis?

- \\ \\ aqtini
- \\ \\ desmini
- \\ \\ miozini
- \\ \\ tubul ini

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad xdeba ribosomebis warmoqmna?

- \\ \\ gol j is aparati
- \\ \\ proteasoma
- \\ \\ birTvaki
- \\ \\ endopl azmuri bade

\\ \\ \\ ramdeni membrana qmnis birTvis garss?

- \\ \\ erTi
- \\ \\ ori
- \\ \\ sami
- \\ \\ oTxi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i iqmneba ori membraniT?

- \\ \\ l izosoma
- \\ \\ peroqsisoma

- \\ mitoqondria
- \\ endopl azmuri bade

\\ \\ qvemoT CamoTvl il i struqturedan roml is meSveobiT xorciel deba nivTierebaTa cvl a birtvsa da citopl azmas Soris?

- \\ mikromil akebi
- \\ mikrofil amentebi
- \\ forebi
- \\ citopl azmuri arxebi

\\ \\ qvemoT CamoTvl il i organel ebidan roml is membrana qmnis kristebs?

- \\ endopal zmuri bade
- \\ l izosoma
- \\ mitoqondria
- \\ peroqsisoma

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs gl uvi endopl azmuri bade?

- \\ cil is sinTezi
- \\ fosfol ipidebis sinTezi
- \\ atf-s sinTezi
- \\ rnm-s sinTezi

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel i qmnis ribosomas?

- \\ rnm da dnm
- \\ dnm da cil a
- \\ cil a da rnm
- \\ rnm da l ipidebi

\\ \\ mitoqondriis qvemoT CamoTvl il i ubnebidan sad mdebareobs mitoqondriul i dnm?

- \\ matriqsi
- \\ gareTa membrana
- \\ membrnaTaSorisi sivrce
- \\ SigniTa membrana

\\ \\ qvemoT CamoTvl il i organel ebidan roml is Semadgenl obaSi Sedis didi da mcire suberTeul ebi?

- \\ ribosoma
- \\ proteasoma
- \\ l izosoma
- \\ peroqsisoma

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis pl azmur membranas?

- \\ gayofis unari
- \\ SerCeviTi ganvl adoba
- \\ denadoba
- \\ mozaikuri Seneba

\\ \\ qvemoT CamoTvl il i Tagan romel i ar gv xvdeba mitoqondriis matriqsSi?

- \\ ribosoma
- \\ dnm
- \\ rnm
- \\ proteasoma

\\ \\ qvemoT CamoTvl il i Tagan romel i gv xvdeba mitoqondriis matriqsSi?

- \\ l izosoma
- \\ ribosoma
- \\ peroqsisoma
- \\ nukl eosoma

\\ \\ qvemoT CamoTvl il i organel ebidan roml is membranas ukavSirdeba ribosomebi?

- \\ gol j is aparati
- \\ endopl azmuri bade
- \\ l izosoma
- \\ peroqsisoma

\\ \\ uj redis qvemoT CamoTvl il i struqturedan romel s ukavSirdeba ribosomebi?

- \\ gol j is aparati
- \\ birTvis garsi
- \\ uj redis garsi
- \\ birTvaki

\\ \\ transportis qvemoT CamoTvl il i saxebidan romel i saWiroebs energiis xarj vas?

- \\ aqtiuri transporti
- \\ difuzia
- \\ osmosi
- \\ uniporti

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs cil as, romel ic membranis mTel sisqes ikavebs?

- \\ transportul i
- \\ integral uri
- \\ transmembranul i
- \\ periferiul i

\\ \\ qvemoT CamoTvl il i xerxebidan roml iT xorcil edeba Txieri nawil akebis SeRweva uj redSi?

- \\ pinocitozi
- \\ fagocitozi
- \\ difuzia
- \\ receptorebiT warmoebul i endocitozi

\\ \\ qvemoT CamoTvl il i xerxebidan roml iT xorciel deba uj redSi mkvrivi nawil akebis SeRweva?

- \\ pinocitozi
- \\ fagocitozi
- \\ difuzia
- \\ gaadvil ebul i difuzia

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ganapirobebs membranis bariedul funqcias?

- \\ periferiul i cil ebi mxol od membranis SigniTa zedapirTan aris Tavmoyril i
- \\ membranis integral uri cil ebi qmnis transmembranul arxebs, roml is meSveobiT wyl is mol ekul ebi moZraobs membranaSi
- \\ fosfol ipidebis kudebi membranis centrSi qmnis hidrofobur zonas
- \\ membrana rigidul ia, rac masSi wyl is moZraobas uSl is xel s

\\\\ qvemoT CamoTvl il i organel ebidan romel i gvxxvdeba yvel aze iSviaTad adami anis uj redebSi?

\\\\ birTvi

\\\\ mikromil aki

\\ Sol ti

\\\\ marcvl ovani endopl azmuri bade

\\\\ qvemoT CamoTvl il i organel ebidan romel i gvxxvdeba adami anis yvel a uj redSi?

\\\\ birTvi

\\\\ birTvaki

\\\\ mikroxo

\\ mikromil aki

\\\\ qvemoT CamoTvl il i gzebidan roml is meSveobiT axorciel ebs birTvi uj redis cxovel yofel obis regul acias?

\\\\ akontrol ebs uj redis gayofas

\\ akontrol ebs cil is sinTezs

\\\\ asinTezebs dnm-s da rnm-s

\\\\ akontrol ebs uj redSor is urTierTobebs

\\\\ qvemoT CamoTvl il i uj redebidan romel is aqvs yvel aze xangrZl ivi Go faza mozrdil organizmSi?

\\\\ eriTroci ti

\\ neironi

\\\\ kanis epiTel uri uj redi

\\\\ nawl avis epiTel uri uj redi

\\\\ qvemoT CamoTvl il i struqtarebidan romel i qmnis membran is SerCeviTi gamtarebl obis safuZvel s?

\\\\ qol esterini

\\ fosfol ipidebis ormagi Sre

\\\\ periferiul i cil ebi

\\\\ gl ikokal i qsi

\\\\ qvemoT CamoTvl il i nivTier eb ebidan romel i ganapi robebs upiratesad bi o membran is denadobis xarixs?

\\\\ integral uri cil ebi

\\\\ fosfol ipidebi

\\ qol esterini

\\\\ ol igosaqaridebi

\\\\ qvemoT CamoTvl il i organel ebidan romel ia Zal ian kargad ganviTarebul i fibrobl astSi?

\\\\ l izosoma

\\\\ peroqsisoma

\\\\ mitoqondria

\\ endopl azmuri bade

\\\\ qvemoT CamoTvl il i struqtarebidan romel ze mimdinareobs aqtinisa da miozinis sinTezi?

\\\\ centriol i

\\ Tavisufal i pol isomebi

\\\\ mitoqondriebi

\\\\ marcvl ovani endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ze iwyeba yvel a saxis cil is sinTezi uj redSi?

- \\ Tavisufal i pol iribosomebi
- \\ gol j is aparati
- \\ nukl eosomebi
- \\ marcvl ovani endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i monawil eobs sekreciul i cil ebis sawyis gl ikozil irebaSi?

- \\ gol j is aparati
- \\ Tavisufal i ribosomebi
- \\ mitoqondria
- \\ marcvl ovani endopl azmuri bade

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel i gvxxvdeba Tirkmil is distal uri kl aknil i mil akis bazal ur invaginaciebSi?

- \\ mitoqondria
- \\ l izosoma
- \\ peroqsisoma
- \\ centriol i

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i uqmnis sayrdens ganivzol ian miofibril as?

- \\ sqel i fil amentebi
- \\ Txel i fil amentebi
- \\ Sual eduri fil amentebi
- \\ mikromil akebi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT miokardiumis SemkumSav kardiomiocitebSi?

- \\ l izosoma
- \\ mitoqondria
- \\ peroqsisoma
- \\ ribosoma

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i qmnis Sual edur fil amentebis, sayl apavis l orwovani garsis epiTel uri firfitis uj redebSi?

- \\ desmini
- \\ citokeratini
- \\ vimentini
- \\ vinkul ini

\\ \\ \\ qvemoT CamoTvl il i motorul i cil ebidan roml is meSveobiT gadaadgil deba sinafsuri buStukebi aqsonSi?

- \\ dineini
- \\ miozini
- \\ kinezini
- \\ aqtini

\\ \\ \\ qvemoT CamoTvl il i struqturebidan roml is membrana Seicavs yvel aze didi raodenobiT cil ebs?

- \\ endopl aazmuri bade
- \\ gol j is aparati
- \\ peroqsisoma
- \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i osteokl astebSi?

\\ \\ l izosoma

\\ \\ peroqsisoma

\\ \\ endopl azmuri bade

\\ \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia Zal ian kargad ganviTarebul i neitrofil ur l eikocitSi?

\\ \\ ribosoma

\\ \\ gol j is aparati

\\ \\ mitoqondria

\\ \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mitoqondriis membranaTaSor isivrces?

\\ \\ moisazRvreba SigniTa membraniT

\\ \\ Seicavs kristebS

\\ \\ monawil eobS JangviT fosforil ebaSi

\\ \\ wyal bad-ionebis gradientis SeqmnaSi monawil eobS

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i osteobl astSi?

\\ \\ marcvl ovani endopl azmuri bade

\\ \\ umarcvl o endopl azmuri bade

\\ \\ gol j is aparati

\\ \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i Warbobs mitoqondriis gareTa membranaSi?

\\ \\ receptorul i

\\ \\ transportul i

\\ \\ fermentul i

\\ \\ adheziuri mol ekul ebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan roml is mitoqondriebs axasiaTebS mil akovani kristebis arseboba?

\\ \\ cil ebiS masinTezebel

\\ \\ steroidmasinTezebel

\\ \\ l orwos masinTezebel

\\ \\ ionebis transportSi monawil e

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel s Seesabameba mitoqondriaSi kristebis raodenobis mateba?

\\ \\ cil is sinTezis gaZl iereba

\\ \\ JangviTi fosforil ebiS gaZl iereba

\\ \\ kal ciumis ionebis intensiuri dagroveba

\\ \\ gareTa membranaSi transportis gaZl iereba

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i ar igeba fiqsirebul pol isomebze?

\\ \\ membranis integral uri

\\ \\ l izosomis fermentebi

\\ \\ histonuri

\\ \\ saeqsporto

F

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i igeba Tavisufal pol isomebze?

\\ \\ natrium-kal iumis tumbo

- \\ I aminebi
- \\ \\ natriumis arxi
- \\ \\ kal ciumis arxi

- \\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i igeba Tavisufal pol isomebze?
- \\ \\ pl azmuri membranis transmembranul i cil ebi
- \\ \\ receptorul i cil ebi
- \\ \\ I izosomuri fermentebi
- \\ \\ sekreciul i cil ebi

- \\ \\ \\ qvemoT CamoTvl il i procesebidan romel is arsebobaze miuTitebs citopl azmis bazofil uri SeRebva?
- \\ \\ cil is aqtiuri sinTezi
- \\ \\ aqtiuri uj redSida transporti
- \\ \\ uj redis funqciuri aqtivobis daqveiTeba
- \\ \\ atf-s intensiuri warmoqmna

- \\ \\ \\ qvemoT CamoTvl il i struqturebidan roml is daSl a gamoiwvevs mitozis SeCerebas?
- \\ \\ mikromil akebis
- \\ \\ I aminebis
- \\ \\ Sual eduri fial mentebis
- \\ \\ birTvis garsis

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan sad ganicdis Tavisufal ribosomebze agebul i cil ebi posttransl aciur modifikacias?
- \\ \\ endopl azmur badeSi
- \\ \\ gol j is aparatSi
- \\ \\ citopl azmaSi
- \\ \\ uj redgare matriqsSi

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan sad ganicdis fiqsirebul ribosomebze agebul i cil ebi posttransl aciur modifikacias?
- \\ \\ citopl azmaSi
- \\ \\ endopl azmur badeSi
- \\ \\ uj redgare matriqsSi
- \\ \\ birTvSi

- \\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i monawil eobs birTvis garsis aRdgenaSi mitozis bol os?
- \\ \\ I amini
- \\ \\ miozini
- \\ \\ kinezini
- \\ \\ histoni

- \\ \\ \\ qvemoT CamoTvl il i nivTierebebidan romel i gadai taneba receptorebi T warmoebul i endocitoziT?
- \\ \\ transferini
- \\ \\ gl ukoza
- \\ \\ acetil qol ini
- \\ \\ adrenal ini

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i Seicavs I izosomebs gansakuTrebiT didi raodenobiT?
- \\ \\ cil is sinTezSi monawil e
- \\ \\ gayofadi
- \\ \\ fagocitozis unaris mqone

\\ I ipidebis sinTezSi monawil e

\\ \\ rogor garemoSia I izosomuri fermentebis aqtivoba optimal uri?

\\ tute

\\ mJave

\\ neutral ur

\\ garemos pH-s mniSvnel oba ara aqvs

\\ \\ qvemoT CamoTvl il i organel ebidan romel ia didi raodenobiT ruxi cximovani qsovil is uj redebSi?

\\ I izosoma

\\ endopl azmuri bade

\\ mitoqondria

\\ peroqsisoma

\\ \\ qvemoT CamoTvl il Tagan romel i gvxxdeba didi raodenobiT mel anocitebSi?

\\ cximis wveTebi

\\ gl ikogenis granul ebi

\\ pigmentis CanarTebi

\\ cil ovani CanarTebi

\\ \\ qvemoT CamoTvl il i procesebidan romel ze miuTiTebis citopl azmaSi narCeni sxeul akebis didi raodenobiT dagroveba?

\\ uj redis sinTezuri aqtivobis gaaqtiveba

\\ I izosomuri monel ebis gaZl iereba

\\ uj redis dabereba

\\ I izosomebis didi raodenobiT warmoqmna

\\ \\ qvemoT CamoTvl il Tagan sad sinTezdeba peroqsisomis fermentebi?

\\ Tavisufal ribosomebze

\\ fiqsirebul ribosomebze

\\ mitoqondriis ribosomebze

\\ gol j is aparatSi

\\ \\ qvemoT CamoTvl il i organel ebidan romel i agrZel ebs funcioni rebas uj redis sikvdil is Semdeg?

\\ endopl azmuri bade

\\ I izosoma

\\ ribosoma

\\ peroqsisoma

\\ \\ mitoqondriis qvemoT CamoTvl il i ubnebidan sad mdebareobs el eqtronul i transportis sistema?

\\ kristebi

\\ granul ebi

\\ SigniTa membrana

\\ gareTa membrana

\\ \\ qvemoT CamoTvl il i mitoqondriul i struqturebidan romel i Seicavs kal ciums?

\\ matriqsul i granul ebi

\\ SigniTa membrana

\\ gareTa membrana

\\ matriqsi

\\ \\ qvemoT CamoTvl il Tagan rogori ganl agebaa damaxasiaTebel i mitoqondriisaTvis uj redSi?

- \\ Tanabari ganawil eba citopl azmaSi
- \\ upiratesad maRal i funqciuri aqtivobis mqone ubnebSi Tavmoyra
- \\ Tavmoyra gol j is aparatis maxl obl ad
- \\ Tavmoyra birTvis maxl obl ad

\\ \\ qvemoT CamoTvl il i procesebidan romel Tan asociardeba upirvel esad mi toqondriaSi kristebis raodenobis mateba?

- \\ gareTa membranaSi transportis gaZl iereba
- \\ JangviTi fosforil ebis gaZl iereba
- \\ kal ciumis ionebis intenziuri dagroveba
- \\ birTvakis funqciis gaZl iereba

\\ \\ qvemoT CamoTvl il i Tvisebebidan romel i ganapirobebs Sual eduri fil amentebis saxeobaspeci fiurobas?

- \\ uj redSida transportis specifika
- \\ sxvadasxva qsovil Si mikromil akebisa da mikrofil amentebis gansxvavebul i Semcvel oba
- \\ cil ebis pol imerizaciis Tavisebureba
- \\ sxvadasxva qsovil Si gansxvavebul i meqanikuri datvirTvis arseboba

\\ \\ qvemoT CamoTvl il i uj redebidan romel Si gv xvdeba vimentini?

- \\ astrociti
- \\ makrofagi
- \\ epiTel uri uj redi
- \\ neironi

\\ \\ qvemoT CamoTvl il i Sual eduri fil amentebidan romel i gv xvdeba epiTel ur qsovil Si?F

- \\ citokeratinebi
- \\ desmini
- \\ vimentini
- \\ gl iuri fil amentebi

\\ \\ qvemoT CamoTvl il i cil ebidan romel i uzrunvel yofs aqtinis fil amentebis badisebr ganl agebas?

- \\ speqtrini
- \\ ankirini
- \\ aqtini
- \\ miozini

\\ \\ qvemoT CamoTvl il i struqturebidan romel i monawil eobs qromosomebis transportSi?

- \\ mikromil akebi
- \\ mikrofil amentebi
- \\ Sual eduri fil amentebi
- \\ bazal uri sx eul akebi

\\ \\ qvemoT CamoTvl il i struqturebidan romel i monawil eobs mitozuri uj redi irgvl iv SemkumSavi rgol is Camoyal ibebaSi?

- \\ centriol i
- \\ mikrofil amentebi
- \\ mikromil akebi
- \\ Sual eduri fil amentebi

\\ \\ qvemoT CamoTvl il i motorul i cil ebidan romel i monawil eobs sekreciul i granul ebis transportSi?

- \\ aqsonemuri dineini

- \\ citopl azmuri dineini
- \\ kinezini
- \\ miozini

\\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo centriol isa da bazal uri sxeul akisaTvis?

- \\ mikromil akebis erTi central uri wyvil is arseboba
- \\ membranul i Seneba
- \\ mikromil akebis organizaciaSi monawil eoba
- \\ wamwamis fuZeSi mdebareoba

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar aris saerTo centriol isa da bazal uri sxeul akisaTvis?

- \\ cil indrul i forma
- \\ mikromil akebis organizaciaSi monawil eoba
- \\ mikromil akebis sameul ebis arseboba
- \\ mikromil akebis central uri wyvil is arseboba

\\ \\ qvemoT CamoTvl il i cil ebidan romel i monawil eobs aqsonis retrogradul transportSi?

- \\ kinezini
- \\ citopl azmuri dineini
- \\ aqsonemuri dineini
- \\ miozini

\\ \\ uj redSi ganxorciel ebul i transportis qvemoT CamoTvl il i saxeebidan romel Si monawil eobs kinezini?

- \\ endocitozuri buStukebis gadaadgil eba l izosomebisaken
- \\ retrogradul i transporti aqsonSi
- \\ transportul i buStukebis moZraoba endopl azmuri badidan gol j is aparatis mimarTul ebiT
- \\ aqtinis fil amentebis srial i kunTovan boWkoSi

\\ \\ qvemoT CamoTvl il i niSnebidan romel ia saerTo peroqsisomisa da mitoqondriisaTvis?

- \\ ori membranis Semcvel oba
- \\ JangviTi fermentebis Semcvel oba
- \\ energiis warmoqmnaSi monawil eoba
- \\ ribosomebis sinTezi

\\ \\ qvemoT CamoTvl il i cil ebidan roml ebi monawil eobs birTvis garsis aRdgenaSi tel ofazis bol os?

- \\ l aminebi
- \\ histonebi
- \\ speqtrini
- \\ tubul ini

\\ \\ qvemoT CamoTvl il i cil ebidan romel i monawil eobs birTvis garsis sayrdenis SeqmnaSi?

- \\ l amini
- \\ speqtrini
- \\ fibril ini
- \\ aqtinini

\\ \\ qvemoT CamoTvl il i procesebidan uSual od roml is meSveobiT akontrol ebs birTvi uj redis funqciur aqtivobas?

- \\ mitozi

- \\ dnm-s repl ikacia
- \\ cil is sinTezis kontrol i
- \\ rnm-s sinTezi

- \\ \\ daasaxel eT qromatinis organizaciis swori Tanmimdevroba.
- \\ sol enoidi _ dnm _ nukl eosoma _ qromosoma
- \\ nukl eosoma _ dnm _ histoni _ qromosoma
- \\ dnm _ nukl eosoma _ sol enoidi _ qromosoma
- \\ qromosoma _ sol enoidi _ qromosoma _ histoni

\\ \\ qvemoT CamoTvl il i struqturebidan romel i ar Seicavs mdgrad mikromil akebs?

- \\ spermatozoidis kudi
- \\ aqsoni
- \\ gayofis TiTistara
- \\ wamwami

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel i Sedis uj redSi pasiuri difuziis gziT?

- \\ ionebi
- \\ gl ukoza
- \\ aminomJavebi
- \\ Jangbadi

\\ \\ qvemoT CamoTvl il i nivTierebebidan roml istvis aris gamtari fosfol ipidebis ormagi Sre?

- \\ cil ebi
- \\ naxSiroJangi
- \\ ionebi
- \\ pol isaqaridebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis ionur arxebs?

- \\ didi raodenobiT ionebis erTdroul i transporti
- \\ `WiSkrebiS- ararseboba
- \\ aqtiuri transporti
- \\ konfiguraciul i cvl il ebebi

\\ \\ transportis qvemoT CamoTvl il i saxeebidan ZiriTadad roml iT xorciel deba nivTierebebis gadatana nervul i sistemis kapil arebis endoTel ur uj redebSi?

- \\ transmembranul i transporti
- \\ pinocitozi
- \\ fagocitozi
- \\ receptorebiT warmoebul i endocitozi

\\ \\ qvemoT CamoTvl il i nivTierebebidan roml is transporti xorciel deba cil a gadamtanebis meSveobiT?

- \\ Jangbadi
- \\ Sardovana
- \\ gl ukoza
- \\ wyl is mol ekul a

\\ \\ qvemoT CamoTvl il i dasaxel ebidan romel i aRniSnavs mol ekul as, romel ic antigens fagocitozisTvis amzadebs?

- \\ I igandi
- \\ ofsonini
- \\ receptori

\\| hormoni

\\|\\| qvemoT CamoTvl il i nivTierebebidan cil ebidan romel i faravs garedan qobian buStukebs?

\\| keratini

\\| koneqsini

\\| kl aTrini

\\| kal sekvestrini

\\|\\| qvemoT CamoTvl il i structurebidan romel i akavSirebs erTmaneTTan gaormagebul qromosomaSi dnm-s j aWvebs?

\\| centromeri

\\| histoni

\\| l amini

\\| centrosoma

\\|\\| qvemoT CamoTvl il Tagan romel i ganapirobebs mitozis dros birTvakis gaqrobas?

\\| l aminebis badis daSl a

\\| ribosomul i cil ebis nakl eboba

\\| dnm-s srul i spiral izacia

\\| birTvakis garsis daSl a

\\|\\| qvemoT CamoTvl il Tagan romel i ganapirobebs profazis bol os birTvakis gaqrobas?

\\| l aminebis fosforil eba, depol imerizacia da daSl a

\\| l aminebis pol imerizacia

\\| Sual eduri da mikrofil amentebis depol imerizacia

\\| birTvakis gaqroba

\\|\\| qvemoT CamoTvl il Tagan romel i ganapirobebs birTvakis garsis daSl as mraval wril buStukad?

\\| qromatinis mzardi kondensacia

\\| birTvakis gaqroba

\\| fibrozul i firfitis daSl a

\\| gayofis TiTistaras warmoqmna

\\|\\| qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis Rerovan uj redebs?

\\| diferenciaciis maRal i xarisxi

\\| bl asttransformaciis unari

\\| maRal i prol iferaciul i aqtivoba

\\| gayofis unaris arqona

\\|\\| uj redis deferenciaciis xarisxis matebasTan erTad ra cvl il ebas ganicdis prol iferaciul i aqtivoba?

\\| mcirdeba

\\| izrdeba

\\| ar icvl eba

\\| uj redis tipis mixedviT cval ebadobs

\\|\\| qvemoT CamoTvl il i organoebis diferencirebul i uj redebidan romel s ara aqvs arc gamravl ebis unari da arc Rerovani uj redebi?

\\| RviZl i

\\| nawl avis l orwovani garsis epiTel uri firfita

\\| hipofizi

\\| miokardi umi

\\ \\ \\ qvemoT CamoTvl il i diferencirebul i uj redebidan romel s ara aqvs gamravl ebis unari da arc Rerovani uj redi?

\\ \\ didi al veol ociti

\\ \\ nervul i uj redi

\\ \\ yaeTnovani enterociti

\\ \\ eriTroci ti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel s aqvs bl asttransformaciis unari?

\\ \\ neironi

\\ \\ l imfociti

\\ \\ neitrofil i

\\ \\ yaeTnovani enterociti

\\ \\ \\ qvemoT CamoTvl il i fermentebidan romel i iwveevs apoptozis uSual o iniciacias?

\\ \\ fosfatazebi

\\ \\ kaspazebi

\\ \\ endonukl eazebi

\\ \\ hidrol azebi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis apoptozs?

\\ \\ qsovil ebis dazianebl Sedegad viTardeba

\\ \\ anTebis Tanxl ebiT mimdinareobs

\\ \\ citopl azmbl dazianebl iwyeba

\\ \\ dnm-s fragmentaci iT xasiaTdeba

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia upiratesad ganviTarebul i osteokl astebSi?

\\ \\ gol j is aparati

\\ \\ peroqsisoma

\\ \\ l izosoma

\\ \\ mitoqondria

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i neitrofil ur l eikociteblSi?

\\ \\ gl uvi endopl azmuri bade

\\ \\ mitoqondria

\\ \\ gol j is aparati

\\ \\ peroqsisoma

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia kargad ganviTarebul i osteobl astSi?

\\ \\ marcvl ovani endopl azmuri bade

\\ \\ gl uvi endopal zmuri bade

\\ \\ mitoqondria

\\ \\ l izosoma

\\ \\ \\ qvemoT CamoTvl il i uj redul i struqturebidan romel s ekuTvnis mel anocitebl mel anins granul ebl?

\\ \\ organel a

\\ \\ CanarTi

\\ \\ proteasoma

\\ \\ pinocitozuri buStuki

\\ \\ \\ qvemoT CamoTvl il i ionuri arxebidan roml is gaxsna ganpi robebl ConCxbl kunTis membranbl depol arizacias?

- \\ natriumis
- \\ \\ kal iumis
- \\ \\ kal ciumis
- \\ \\ ql oris

\\ \\ \\ uj redis qvemoT CamoTvl il i struqturibidan romel i Sedis nisl is bazofil uri nivTierebis Semadgnel obaSi?

- \\ Tavisufal i ribosomebi da marcvl ovani endopl azmuri bade
- \\ \\ mitogondriebi da mikromil akebi
- \\ \\ mikromil akebi da neurofil amentebi
- \\ \\ gol j is aparati da l izosomebi

\\ \\ \\ membranis qvemoT CamoTvl il i Taviseburebidan romel ia ganpirobetul i integral uri cil ebis mozaikuri ganl agebit?

- \\ \\ SerCeviTi ganvl adoba
- \\ \\ asimetrul oba
- \\ \\ sisqe
- \\ \\ receptorul i Tvisebebi

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i faravs organizms garedan da amofens Rru organoebs?

- \\ \\ epiTel uri
- \\ \\ SemaerTebel i
- \\ \\ kunTovani
- \\ \\ nervul i

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i ar Seicavs sisxl ZarRvebs?

- \\ \\ faSari SemaerTebel i
- \\ \\ Zvl ovani qsovil i
- \\ \\ cximovani
- \\ \\ xrtil ovani

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis epiTel ur qsovil s?

- \\ \\ \\ uj redbis fenebad ganl ageba
- \\ \\ didi raodenobiT uj redSorisi nivTierebis arseboba
- \\ \\ \\ sisxl ZarRvebis ararboba
- \\ \\ pol aroba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis epiTel ur qsovil s?

- \\ \\ \\ uj redbis mWidro ganl ageba
- \\ \\ apikal uri da bazal uri nawil ebis gansxvavebul i Seneba
- \\ \\ \\ sisxl ZarRvebis ararboba
- \\ \\ bazal ur membranaze mdebareoba

\\ \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens Sardis gamomtan gzebs?

- \\ \\ \\ mraval Sriani brtyel i garqovanebul i
- \\ \\ \\ mraval rigiani cil indrul i
- \\ \\ \\ mraval Sriani gardamaval i
- \\ \\ \\ erTSriani brtyel i

\\ \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens gul mkerdis da mucl is Rrus?

- \\ \\ \\ erTSriani kuburi
- \\ \\ mezoTel iumi

- \\ endoTel iumi
- \\ erTSriani cil indrul i

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba Tirkml is mil akebSi?

- \\ erTSriani kuburi
- \\ erTSriani mra val rigiani
- \\ mra val Sriani brtyel i
- \\ mra val Sriani gardamaval i

\\ \\ kanis romel i nawil i iqmneba mra val Sriani brtyel i garqovanebul i epiTel iumiT?

- \\ epidermisi
- \\ derma
- \\ hipoderma
- \\ jirkvl ebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTeb s epiTel ur qsovil s?

- \\ mdebareobs bazal ur membranaze
- \\ ara aqvs metapl aziis unari
- \\ mxol od eqtodermul i warmoSobisaa
- \\ didi raodenobiT sisxl ZarRvebs Seicavs

\\ \\ qvemoT CamoTvl il i funqciebidan romel i ar axasiaTeb s epiTel ur qsovil s?

- \\ sekrecia
- \\ absorbacia
- \\ SekumSva
- \\ dacva

\\ \\ qvemoT CamoTvl il i niSnebidan romel i gamoiyeneba epiTel uri qsovil is kl asifikaciisaTvis?

- \\ bazal uri Sris uj redebis forma
- \\ epiTel uri uj redebis Sreebis raodenoba
- \\ bazal uri firfitis arseboba
- \\ birTvebis zoma

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ganapirobebs epiTel uri qsovil is pol arobas?

- \\ sekreciis unari
- \\ uj redebis fenebad ganl ageba
- \\ mosazRvre mdebareoba
- \\ sisxl ZarRvebis ararseboba

\\ \\ sekreciis qvemoT CamoTvl il i tipebidan roml is dros iSl eba uj redi mTI ianad?

- \\ merokrinul i
- \\ apokrinul i
- \\ hol okrinul i
- \\ autokrinul i

\\ \\ sekreciis qvemoT CamoTvl il i tipebidan roml is dros xdeba uj redi s citopl azmis apikal uri nawil is kargva?

- \\ merokrinul i
- \\ apokrinul i
- \\ hol okrinul i

\\ autokrinul i

\\ \\ egzokrinul i jirkvl ebis martiv da rTul jirkvl ebad kl asifikacia xdeba:

\\ sadinrebis raodenobis mixedviT

\\ terminal uri nawil is formis mixedviT

\\ sadinrebis datotvis xarisxis mixedviT

\\ terminal uri nawil ebis raodenobis mixedviT

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ganasxvavebs egzokrinul jirkvl ebs endokrinul isagan?

\\ epiTel uri warmoSoba

\\ sekreciis unari

\\ sadinrebis arseboba

\\ bazal uri membranis arseboba

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs egzokrinul jirkval s, romel sac erTi sadinari da mrgval i terminal uri nawil i aqvs?

\\ martivi mil akovani

\\ rTul i mil akovani

\\ martivi al veol uri

\\ rTul i al veol uri

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba terminal ur nawil s, roml is uj redebi l orwos gamoimuSaveben?

\\ serozul i

\\ mukozuri

\\ al veol uri

\\ fol ikul uri

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba terminal ur nawil s, roml is uj redebi cil ovani bunebis sekrets gamoimuSaveben?

\\ serozul i

\\ mukozuri

\\ qonis

\\ fial isebri

\\ \\ qvemoT CamoTvl il i organel ebidan romel ia kargad ganviTarebul i l orwos masinTezebel uj redSi?

\\ mitoqondriebi

\\ gol j is aparati

\\ l izosomebi

\\ pol isomebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel s aqvs kargad ganviTarebul i umarcvl o endopl azmuri bade?

\\ ionebis transportSi monawil e uj redi

\\ steroidebis masinTezebel i uj redi

\\ cil is masinTezebel i uj redi

\\ peptidebis masinTezebel i uj redi

\\ \\ qvemoT CamoTvl il i egzokrinul i jirkvl ebidan romel s ar aqvs gamomtani sadinari?

\\ martivi mil akovani

\\ serozul i

\\ fial isebri

\\ rTul i al veol uri

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS epiTel ur qsovil s?
\\ \\ \\ bazal ur membranaze mdebareoba
\\ \\ \\ metapl aziis unaris arqona
\\ \\ \\ mxol od eqtodermul i warmoSoba
\\ \\ \\ didi raodenobiT sisxl ZarRvebis arseboba

\\ \\ \\ qvemoT CamoTvl il i fibril uri cil ebidan romel i Sedis mraVal Sriani
brtyel i garqovanebul i epiTel iumis Semadgenl obaSi?
\\ \\ \\ kol ageni
\\ \\ \\ el astini
\\ \\ \\ keratini
\\ \\ \\ el eidini

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs epiTel uri qsovil is
pol arobas?
\\ \\ \\ sekreciis unari
\\ \\ \\ uj redebis fenebad ganl ageba
\\ \\ \\ mosazRvre mdebareoba
\\ \\ \\ sisxl ZarRvebis ararseboba

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mikroxaos?
\\ \\ \\ uZravi wamwamia
\\ \\ \\ uj redis bazal ur zedapirze mdebareobs
\\ \\ \\ zrdis uj redis zedapiris farTobs
\\ \\ \\ iqmneba mikromil akebis 9 tripl etiT

\\ \\ \\ qvemoT CamoTvl il i struqturEBidan romel i ar gvXvdeba epiTel uri
uj redebis apikal ur zedapirze?
\\ \\ \\ mikroxaoebi
\\ \\ \\ hemidesmosomebi
\\ \\ \\ stereocil iebi
\\ \\ \\ wamwamebi

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS martiv jirkval s?
\\ \\ \\ mxol od erTi terminal uri nawil is arseboba
\\ \\ \\ mxol od erTi sadinaris arseboba
\\ \\ \\ sadinris ararseboba
\\ \\ \\ intraepiTel uri mdebareoba

\\ \\ \\ qvemoT CamoTvl il i nivTierEBEBidan romel s gamoyofs fial iseBri
uj reDebi?
\\ \\ \\ serozul i siTxe
\\ \\ \\ mucini (l orwo)
\\ \\ \\ nerwyvi
\\ \\ \\ hormonebi

\\ \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens
egzokrinul i jirkvl ebis gamomtAn sadinrebs?
\\ \\ \\ mraVal Sriani gardamaval i
\\ \\ \\ mraVal Sriani cil indrul i
\\ \\ \\ erTSriani mraVal rigiani
\\ \\ \\ erTSriani brtyel i

\\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS merokrinul sekrecias?
\\ \\ \\ ar gvXvdeba endokrinul jirkvl ebSi
\\ \\ \\ egzocitozis gziT mimdinareobs

- \\ jirkvl ovani uj redebis apikal uri nawil ebis kargvas iwvevs
- \\ endocitozis nairsaxeobaa

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ganasxvavebs egzokrinul jirkvl ebs endokrinul i jirkvl ebisagan?

- \\ epiTel uri warmoSoba
- \\ sekreciis unari
- \\ sadinris ararseboba
- \\ gl andul ocitebis bazal ur membranaze mdebareoba

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis stereocilias?

- \\ uj redis grZel i umozrao morcia
- \\ hvxvdeba haergamtar gzebSi
- \\ uzravi wamwamia
- \\ Seicavs aqsonemas

\\ \\ qvemoT CamoTvl il i funqciebidan romel Si monawil eobs mioepiTel uri uj redi?

- \\ fagocitozi
- \\ sekretis gamodevna gl andul ocitidan
- \\ gl andul ocitebis regeneracia
- \\ bazal uri membranis komponentebis warmoqmna

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis martiv jirkval s?

- \\ mxol od erTi terminal uri nawil is arseboba
- \\ mxol od erTi sadinris arseboba
- \\ sadinris ararseboba
- \\ mraval i sadinris arseboba

\\ \\ sasignal o moel kul ebis moqmedebis qvemoT CamoTvl il i tipebidan roml is meSveobiT roml is meSveobiT xdeba Sors mdebare samizne uj redebis moqmedebis regulacia?

- \\ autokrinul i
- \\ parakrinul i
- \\ neirokrinul i
- \\ endokrinul i

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebis bazal ur firfifitas?

- \\ gvxxvdeba mxol od epiTel uri da SemaerTebel i qsovil is sazRvarze
- \\ Cans mxol od el eqtronul mikroskopSi
- \\ Sedgeba mkvrivi da naTel i firfitebisagan
- \\ SemaerTebel i qsovil is matriqss Ruza fibril ebiT ukavSirdeba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis epiTel ur qsovil s?

- \\ didi raodenobiT uj redSorisi nivTierebis arseboba
- \\ mosazRvre mdebareoba
- \\ mcire raodenobiT sisxl ZarRvebis arseboba
- \\ uj redSorisi kavSirebis ararseboba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis hol okrinul sekrecias?

- \\ gvxxvdeba qonis jirkvl ebSi
- \\ iwvevs citopl azmis umniSvnel o nawil is kargvas
- \\ sekrecis ZiriTadi formaa
- \\ damaxasiaTebel ia difuzuri endokrinul i sistemis uj redebisatvis

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS Camket firfitas (brma sartyel s)?

\\ \\ iqmneba koneqsonebiT

\\ \\ monawil eobs impul sis gatarebaSi

\\ \\ uj redSorisi sivrcis srul hermetizacias uzrunvel yofs

\\ \\ gv xvdeba yvel as saxis qsovil Si

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS piris Rrus amomfen epiTel iums?

\\ \\ viTardeba eqtodermidan

\\ \\ mraVal Sriania

\\ \\ mosazRvre mdebareoba aqvs

\\ \\ mTI ianad garqovanebul ia

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs mraVal Sriani brtyel i epiTel uri qsovil i?

\\ \\ moZraoba

\\ \\ sekrecia

\\ \\ damcvel obiTi

\\ \\ Sewova

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS mraVal rigian cil indrul epiTel iums?

\\ \\ birTvebis erT doneze mdebareoba

\\ \\ yvel a uj redi monawil eobs apikal uri (sanaTurismxriveri) zedapiris SeqmnaSi

\\ \\ yvel a uj redi mdebareobs bazal ur membranaze

\\ \\ yvel a uj reds aqvs wamwamebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoadgens erTuj redian jirkval s?

\\ \\ pl azmuri uj redi

\\ \\ fol ikul uri uj redi

\\ \\ fial iseBri uj redi

\\ \\ hepatociti

\\ \\ sekreciis romel i tipisTvis ar aris damaxasiaTebel i uj redis pl azmuri membranis mTI ianobis rRveva?

\\ \\ merokrinul i

\\ \\ mikroapokrinul i

\\ \\ hol okrinul i

\\ \\ makroapokrinul i

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS hemidesmosomas?

\\ \\ mezobel i uj redebis membranebis Serwymis gziT warmoiqmneba

\\ \\ mezobel epiTel ur uj redebs akavSirebs erTmaneTTan

\\ \\ epiTel ur uj redebs bazal ur membranastan akavSirebs

\\ \\ iqmneba koneqsonebiT

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS fial iseBur uj reds?

\\ \\ I orwos sekrecia

\\ \\ birTvis bazal uri mdebareoba

\\ \\ endokrinul i sekrecia

\\ \\ didi raodenobiT sekreciul i granul ebis arseboba apikal ur nawil Si

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS fial iseBur uj reds?

- \\ erTi sadinris arseboba
- \\ ramdenime terminal uri nawil is arseboba
- \\ mfarav epiTel iumSi mdebareoba
- \\ egzoepiTel uri mdebareoba

- \\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i qmnis napral isebr kavSirs (neqsuss?)
- \\ \\ kadherini
- \\ \\ koneqsoni
- \\ \\ kal modul ini
- \\ \\ sel eqtini

- \\ \\ \\ qvemoT CamoTvl il i kavSirebidan romel i akavSirebs epiTel ur uj reds bazal ur membranasTan?
- \\ \\ desmosoma
- \\ \\ Sewebebis sartyel i
- \\ \\ hemidesmosoma
- \\ \\ Camketi firfita

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis epiTel ur qsovil s?
- \\ \\ uj redSorisi nivTierebebis siWarbe
- \\ \\ sayrdens uqmnis sxva qsovil ebs an organoebs
- \\ \\ didi raodenobiT sisxl ZarRvebis arseboba
- \\ \\ maRal i regeneraciis unari

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis epiTel ur qsovil s?
- \\ \\ didi raodenobiT sisxl ZarRvebis arseboba
- \\ \\ uj redbis pol arul i Seneba
- \\ \\ bazal uri membranis ararseboba
- \\ \\ dabal i regeneraciis unari

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis epiTel ur qsovil s, romel ic umTavresad damcvel obiT funqcias asrul ebs organizmSi?
- \\ \\ didi raodenobiT mikroxaobis arseboba
- \\ \\ antisxeul ebis warmoqmna
- \\ \\ mraval Srianoba
- \\ \\ I orwos sekrecia

- \\ \\ \\ qvemoT CamoTvl il i stuqtirebidan roml is arseboba ar aris damaxasiaTebel i erTSriani epiTel iumis apikal ur zedapirze?
- \\ \\ mikroxo
- \\ \\ desmosoma
- \\ \\ stereocilia
- \\ \\ wamwami

- \\ \\ \\ qvemoT CamoTvl il i struqtirebidan roml is arseboba ar aris damaxasiaTebel i epiTel uri uj reds lateral ur zedapirze?
- \\ \\ mikroxo
- \\ \\ desmosoma
- \\ \\ mkvriivi kontakti
- \\ \\ Sewebebis sartyel i

- \\ \\ \\ qvemoT CamoTvl il i struqtirebidan roml is arseboba aris damaxasiaTebel i epiTel uri uj reds lateral ur zedapirze?
- \\ \\ mikroxo
- \\ \\ desmosoma

- \\ hemidesmosoma
- \\ wamwami

\\ \\ qvemoT CamoTvl il i ubnebidan sad gvxxdeba Semwovi yaeTnis mqone epiTel iumi?

- \\ haergamtari gzebi
- \\ wvriil i nawl avi
- \\ SardsaaweTi
- \\ sayl apavi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis upiratesad damcvel obiTi funqciis mqone epiTel ur qsovl is?

- \\ mraVal Srianoba
- \\ maRal i regeneraciis unari
- \\ rgovana Sris arseboba
- \\ mikroxaebis arseboba

\\ \\ qvemoT CamoTvl il i qsovil ebidan roml istvis aris damaxasiaTebel i merkel is uj redis arseboba?

- \\ epiTel uri
- \\ retikul uri
- \\ mkvrivi formiani
- \\ mkvrivi uformo

\\ \\ qvemoT CamoTvl il i procesebidan romel i iwevs poxieri uj redebis degranul acias?

- \\ antigen-antisxeul is kompl eqsis citol emis receptorTan dakavSireba
- \\ antisxeul is citol emasTan urTierToba
- \\ antisxeul is uj redSi SeRweva
- \\ antigen-antisxeul is kompl eqsis uj redSi SeRweva

\\ \\ qvemoT CamoTvl il i uj redebidan romel i gvxxdeba mkvriv SemaerTebel qsovil Si?

- \\ fibroblasti
- \\ fibrociti
- \\ adipociti
- \\ retikul uri uj redi

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel ia gansakuTrebiT mtkice?

- \\ faSari
- \\ mkvrivi formiani
- \\ mkvrivi uformo
- \\ retikul uri

\\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i pl azmur uj redSi?

- \\ mitoqondria
- \\ l izosoma
- \\ marcvl ovani endopl azmuri bade
- \\ umarcvl o endopl azmuri bade

\\ \\ qvemoT CamoTvl il i niSnebidan romel i udevs safuZvl ad sakuTriv SemaerTebel i qsovil is kl asifikacias?

- \\ uj redebis raodenoba
- \\ uj redebis tipebi
- \\ matriqsis el ementebis ganawil ebis Tavisebureba

\\l uj redebis ganawil ebis Tavisebureba

\\l\\l SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i mdebareobs yovel Tvis epiTel uri qsovil is qveS?

\\l mkvrivi formiani

\\l mkvrivi uformo

\\ faSari uformo

\\l retikul uri

\\l\\l qvemoT CamoTvl il i niSnebidan romel i ganasxvavebs mkvriv SemaerTebel qsovil s faSarisagan?

\\l mcire raodenobiT boWkoebis arseboba

\\ kol agenuri boWkoebis didi raodenobiT arseboba

\\l pl azmuri uj redebis maRal i Semcvel oba

\\l ZiriTadi nivTierebis maRal i Semcvel oba

\\l\\l qvemoT CamoTvl il i uj redebidan roml is winamorbedi uj redbi ar warmoiqmneba Zvl is wiTel tvinSi?

\\ fibrobl asti

\\l pl azmuri uj redi

\\l poxieri uj redi

\\l makrofagi

\\l\\l qvemoT CamoTvl il Tagan roml is maRal i Semcvel oba ganapirobebs poxieri uj redebis granul ebis metaqromaziis unars?

\\l l izosomuri fermentebi

\\ gl ikozaminogl ikanebi

\\l JangviTi fermentebi

\\l cximovani mJavebi

\\l\\l qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis pl azmur uj reds?

\\l kargad ganviTarebul i marcvl ovani endopl azmuri bade

\\l gol j is aparatis central uri mdebareoba

\\l citopl azmis bazofilia

\\ sxvadasxva antigenis mimarT antisxeul ebis sinTezi

\\l\\l qvemoT CamoTvl il i boWkoebidan romel i ar Sedis el astikur boWkoTa sistemaSi?

\\l el astini

\\ retikul ini

\\l oqsital ani

\\l el aunini

\\l\\l qvemoT CamoTvl il Tagan romel i struqturul i gl ikoproteini uzrunvel yofs Zvl ovani uj redebis dakavSirebas matriqsTan?

\\l qondroneqtini

\\ sial oproteini

\\l fibroneqtini

\\l l aminini

\\l\\l qvemoT CamoTvl il i boWkoebidan romel i uqmnis natif sayrdens rbi l qsovil ebs?

\\l el astikuri boWkoebi

\\ retikul uri boWkoebi

\\l l tipis kol agenuri boWkoebi

\\l ll tipis kol agenuri boWkoebi

- \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs fibrobl asti?
- \\ \\ damcvel obiTi
- \\ \\ antisxeul ebs gamomuSaveba
- \\ \\ moZraoba
- \\ \\ uj redSorisi nivTierabis warmomna

- \\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebis makrofags?
- \\ \\ didi raodenobiT bazofil uri marcvl ebs arseboba
- \\ \\ antisxeul ebs warmomnis unari
- \\ \\ uj redSorisi matriqsis komponentebis warmomna
- \\ \\ fagocitozSi monawil eoba

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs antisxeul ebs warmomnaSi?
- \\ \\ pl azmuri uj redi
- \\ \\ makrofagi
- \\ \\ fibrobl asti
- \\ \\ poxieri uj redi

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mkvrivi formiani SemaerTebel i qsovil i?
- \\ \\ myesebi, iogebi
- \\ \\ epiTel uri qsovil is qveS
- \\ \\ kunTovani boWkebis irgvl iv
- \\ \\ kanis badebrivi Sre

- \\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i ar miekuTvneba special uri mniSvnel obis SemaerTebel qsovil s?
- \\ \\ cximovani qsovil i
- \\ \\ l orwovani qsovil i
- \\ \\ faSari uformo SemaerTebel i qsovil i
- \\ \\ pigmenturi qsovil i

- \\ \\ \\ qvemoT CamoTvl il i komponentebidan romel i ar Sedis bazal uri membranis Semadgenl obaSi?
- \\ \\ l aminini
- \\ \\ IV tipis kol ageni
- \\ \\ Ruza fibril ebi
- \\ \\ qondroitinsul fati

- \\ \\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebis pl azmur uj reds?
- \\ \\ kol agenuri boWkoebis warmomna
- \\ \\ ZiriTadi nivTierabis warmomna
- \\ \\ antisxeul ebs warmomna
- \\ \\ pigmentur cvl aSi monawil eoba

- \\ \\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebis makrofags?
- \\ \\ monocituri warmoSoba
- \\ \\ uj redSorisi matriqsis komponentebis warmomna
- \\ \\ fagocitosis unari
- \\ \\ didi raodenobiT l izosomebis arseboba

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i warmomnis SemaerTebel i qsovil is uj redSorisi nivTierabis organul komponentebis?
- \\ \\ fibrobl asti
- \\ \\ l imfociti

- \\ makrofagi
- \\ poxieri uj redi

\\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebS retikul ur qsovil s?

- \\ sayrdeni
- \\ antisxeul ebis gamomuSaveba
- \\ cximis deponireba
- \\ Tboregul acia

\\ \\ qvemoT CamoTvl il i Tagan romel i TanmimdevrobiT xdeba el astikuri boWkos warmoqmna?

- \\ oqsital ani, el aunini, el astini
- \\ oqsital ani, el astini, el aunini
- \\ el aunini, oqsital ani, el astini
- \\ el astini, oqsital ani, el aunini

\\ \\ SearCieT erTi araswori pasuxi. bazal uri membranis Semadgenl obaSi Sedis:

- \\ I aminini
- \\ dermatansul fati
- \\ Ruza fibril ebi
- \\ IV tipis kol ageni

\\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebS makrofags?

- \\ uj redSorisi nivTierebis warmoqmna
- \\ fagocitozSi monawil eoba
- \\ antisxeul ebis gamomuSaveba
- \\ cximis deponireba

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebS poxier uj reds?

- \\ warmoiqmneba Zvl is tvinSi
- \\ SemaerTebel qsovil Si sisxl is gavliT xvdeba
- \\ monawil eobs antisxeul ebis warmoqmnaSi
- \\ didi raodenobiT bazofil ur granul ebs Seicavs

\\ \\ qvemoT CamoTvl il i nivTierebebidan romel i Sedis pigmenturi uj redis citopl azmis marcvl ebis Semadgenl obaSi?

- \\ retikul ini
- \\ histamini
- \\ mel anini
- \\ heparini

\\ \\ qvemoT CamoTvl il i boWkoebidan romel i Sedis faSari uformo boWkovani SemaerTebel i qsovil is uj redSorisi nivTierebis Semadgenl obaSi?

- \\ gondrinis
- \\ oseinis
- \\ kol agenuri
- \\ miel iniani

\\ \\ qvemoT CamoTvl il i niSnebidan romel i axasiaTebS fibrocits?

- \\ bazofil uri citopl azma
- \\ gayofis unari
- \\ acidofil uri citopl azma
- \\ kargad ganviTarebul i marcvl ovani endopl azmuri bade

\\ \\ qvemoT CamoTvl il i uj redebidan romel Si gv xvdeba yvel aze didi raodenobiT heparinisa da histaminis Semcvel i granul ebi?

- \\ fibroblasti
- \\ limfociti
- \\ makrofagi
- \\ poxierij redi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ekuTvnis mononukleuri fagociticheski sistemasi?

- \\ poxierij redi
- \\ plazmuri uj redi
- \\ limfociti
- \\ makrofagi

\\ \\ \\ qvemoT CamoTvl il i komponentebidan romel i ar Sedis faSari uformo boWkovani SemaerTebel i qsovil is uj redSorisi nivTierebis Semadgenl obasi?

- \\ kol agenuri da el astikuri boWkoebi
- \\ proteoglikanebi da glikoproteinebi
- \\ qondrocitebi da qondroblastebi
- \\ fibroblastebi da fibrocitebi

\\ \\ \\ qvemoT CamoTvl il i Tagan romel i miekuTvneba specialuri daniSnulebis SemaerTebel qsovil si?

- \\ cximovani qsovil i
- \\ mkvrivi formiani SemaerTebel i qsovil i
- \\ faSari uformo SemaerTebel i qsovil i
- \\ mkvrivi uformo SemaerTebel i qsovil i

\\ \\ \\ qvemoT CamoTvl il i nisnebidan romel i udevs safuzvl ad sakuTriv SemaerTebel i qsovil is kl asifikacias?

- \\ uj redebis raodenoba
- \\ uj redebis tipebi
- \\ matriqs el ementebis ganawilebis Tavisebureba
- \\ uj redebis ganawilebis Tavisebureba

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel sar asrul ebs SemaerTebel i qsovil i?

- \\ trofikuli
- \\ damcvelobiti
- \\ regeneraciuli
- \\ absorbcivli

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel sar asrul ebs SemaerTebel i qsovil i?

- \\ absorbcia
- \\ el eqtruli impuls generacia
- \\ damcvelobiti
- \\ SekumSva

\\ \\ \\ qvemoT CamoTvl il i Tagan romel i ar ekuTvnis sakuTriv SemaerTebel qsovil si?

- \\ faSari
- \\ mkvrivi formiani
- \\ mkvrivi uformo
- \\ retikuluri

\\ \\ \\ qvemoT CamoTvl il i boWkoebidan romel i ar gvxdeba sakuTriv SemaerTebel qsovil si?

- \\ kol agenuri

- \\ el astikuri
- \\ retikul uri
- \\ qondrinis

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gv xvdeba faSar SemaerTebel qsovil Si?

- \\ fibrobl asti
- \\ qondrobl asti
- \\ makrofagi
- \\ l imfociti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gv xvdeba faSar SemaerTebel qsovil Si?

- \\ pl azmuri uj redi
- \\ makrofagi
- \\ cximovani uj redi
- \\ gl iuri makrofagi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoqmniS SemaerTebel i qsovil is uj redSor is matriqss?

- \\ makrofagi
- \\ fibrobl asti
- \\ fibrociti
- \\ pl azmuri uj redi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel i axasiaTebS fibrobl astS?

- \\ ZiriTadi nivTierebis sinTezi
- \\ antisxeul ebis warmoqmna
- \\ metaqromaziul i granul ebis warmoqmna
- \\ fagocitozSi monawil eoba

\\ \\ \\ qvemoT CamoTvl il i uj redebidan roml is winamorbedia B l imfociti?

- \\ makrofagi
- \\ pl azmuri uj redi
- \\ poxieri uj redi
- \\ fibrobl asti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i aZl evs dasabams makrofags?

- \\ monociti
- \\ mezenqimociti
- \\ l imfociti
- \\ fibrobl asti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs antisxeul ebis warmoqmnaSi?

- \\ fibrobl asti
- \\ makrofagi
- \\ pl azmuri
- \\ poxieri

\\ \\ \\ qvemoT CamoTvl il i uj redebidan roml is winamorbedi uj redebi ar warmoiqmneba Zvl is wiTel tv inSi?

- \\ fibrobl asti
- \\ l imfociti
- \\ pl azmuri
- \\ makrofagi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i Seicavs hepariniTa da histaminiT mdidar granul ebs?

\\ \\ fibrobl asti

\\ \\ limfociti

\\ \\ makrofagi

\\ \\ poxieri

\\ \\ qvemoT CamoTvl il i ubnebidan sad xdeba poxieri uj redebis winamorbedebis warmoqmna?

\\ \\ faSari SemaerTebel i qsovil i

\\ \\ mezenqima

\\ \\ Zvl is wiTel i tvini

\\ \\ mkvrivi SemaerTebel i qsovil i

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i uj redebidan romel i monawil eobs al ergiul reacriebSi?

\\ \\ fibrobl asti

\\ \\ fibrociti

\\ \\ poxieri

\\ \\ cximovani

\\ \\ qvemoT CamoTvl il i structurebidan romel s Seicavs didi raodenobiT mkvrivi SemaerTebel i qsovil i?

\\ \\ uj redebi

\\ \\ ZiriTadi nivTiereba

\\ \\ el astikuri boWkoebi

\\ \\ kol agenuri boWkoebi

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i mdebareobs uSual od epiTel uri qsovil is qveS?

\\ \\ retikul uri qsovil i

\\ \\ mkvrivi formiani SemaerTebel i qsovil i

\\ \\ faSari SemaerTebel i qsovil i

\\ \\ cximovani qsovil i

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i monawil eobs siTbos warmoqmnaSi?

\\ \\ xrtil ovani qsovil i

\\ \\ ruxi cximovani qsovil i

\\ \\ retikul uri qsovil i

\\ \\ el astikuri qsovil i

\\ \\ qvemoT CamoTvl il i niSnebidan roml is didi raodenobiT arseboba ganapirobebs ruxi cximovani qsovil is Seferil obas?

\\ \\ cximovani wveTebis

\\ \\ sisxl ZarRvebis

\\ \\ l izosomebis

\\ \\ peroqsisomebis

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis sisxl mbad organoebs?

\\ \\ cximovani

\\ \\ l orwovani

\\ \\ retikul uri

\\ \\ el astikuri

\\ \\ kol agenis qvemoT CamoTvl il i tipebidan romel ia yvel aze mtkice da mraval ricxovani organizmSi?

- \\ I
- \\\ II
- \\\ III
- \\\ IV

\\\ SemaerTebel i qsovil is qvemoT CamoTvl il i boWkoebidan romel s ewodeba argirofil uri?

- \\ kol agenuri
- \\ el astikuri
- \\ retikul uri
- \\ oqsital anis

\\\ romel i tipis kol ageni qmnis retikul ur boWkoebs?

- \\ I
- \\ II
- \\ III
- \\ IV

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiTebs fibrobl astebs?

- \\ SemaerTebel i qsovil is mTavari uj redul i tipia
- \\ warnoqmnis kol agens
- \\ asinTezebs gl ikozaminogl ikanebs
- \\ fagocitozis unariT xasiaTdeba

\\\ qvemoT CamoTvl il i nivTierebebidan romel s warnoqmnis fibrobl asti?

- \\ histamini
- \\ heparini
- \\ fibroneqtini
- \\ interl eikini

qvemoT CamoTvl il i nivTierebebidan romel s ar warnoqmnis fibrobl asti?

- \\ kol ageni
- \\ el astini
- \\ histamini
- \\ fibroneqtini

\\\ qvemoT CamoTvl il i ubnebidan sad ar gv xvdeba I tipis kol agenuri boWko?

- \\ faSari SemaerTebel i qsovil is uj redSorisi matriqsi
- \\ firfitovani Zvl is matriqsi
- \\ duRabis uj redSorisi matriqsi
- \\ bazal uri membrana

qvemoT CamoTvl il i struqtarebidan roml is Semadgenl obaSi ar Sedis kol ageni?

- \\ myesi
- \\ iogi
- \\ epidermisi
- \\ aponevrozi

\\\ qvemoT CamoTvl il i organoebidan romel Si gv xvdeba umniSvnel o raodenobiT retikul uri boWkoebi?

- \\ el enTa
- \\ I imfuri kvanZi
- \\ Zvl is tvini
- \\ Tirkmel i

\\ \\ \\ qvemoT CamoTvl il i uj redebitan romel i ar ekuTvnis mononukl euri fagocitebis sistemas?

- \\ \\ al veol uri makrofagi
- \\ \\ monociti
- \\ \\ kupferis uj redi
- \\ \\ poxieri uj redi

\\ \\ \\ qvemoT CamoTvl il i organel ebidan romel ia yvel aze kargad ganviTarebul i pl azmur uj redSi?

- \\ \\ marcvl ovani endopl azmuri bade da gol j is aparati
- \\ \\ l izosoma da peroqsisoma
- \\ \\ marcvl ovani da gl uvi endopl azmuri bade
- \\ \\ l izosomebi da mitoqondria

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad gv xvdeba didi raodenobiT adipocitebi?

- \\ \\ epidermisi
- \\ \\ derma
- \\ \\ Zvl is yviTel i tvini
- \\ \\ farisebri jirkval i

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis TeTr cximovan uj redebs?

- \\ \\ birTvis periferiul i mdebareoba
- \\ \\ didi raodenobiT cximis wveTebis arseboba
- \\ \\ cximis erTi didi wveTis arseboba
- \\ \\ bazal uri membranis arseboba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis rux cximovan uj redebs?

- \\ \\ gv xvdeba ZiriTadad nayofSi da axal Sobil Si
- \\ \\ Seicavs cximis erT did wveTs
- \\ \\ didi raodenobiT sisxl ZarRvebiTaa garSemortymul i
- \\ \\ mezenqimuri warmoSobisaa

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis rux cximovan qsovil s?

- \\ \\ gv xvdeba rogorc axal Sobil ebSi, ise xanSiSesul asakSi
- \\ \\ Seicavs mcire raodenobiT sisxl ZarRvebs
- \\ \\ mitoqondriebSi gv xvdeba cil a Termogenini
- \\ \\ misi uj redebi uSual od ar inervirdeba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ganasxvavebs TeTr cximovan qsovil s ruxisagan?

- \\ \\ cximis dagrovebis unari
- \\ \\ axal Sobil obis periodSi gv xvdeba
- \\ \\ didi raodenobiT adipocitebis Semcvel oba
- \\ \\ cximovani uj redebis citopl azmaSi cximis erTi didi wveTis arseboba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis TeTr cximovan qsovil s?

- \\ \\ uj redebi ramdenime cximovan wveTs Seicavs
- \\ \\ cximis wveTi biomembraniT aris gamoyofil i citopl azmisagan
- \\ \\ TiToeul cximovan uj reds gars bazal uri membrana akravs
- \\ \\ uj redebSi birTvebi central urad mdebareobs

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis rogorc TeTr, ise rux cximovan qsovil s?

- \\ Termogeninis Semcvel oba
- \\ feradi citoqromebis Semcvel oba
- \\ cximis dagrovebis unari
- \\ gvxdvdeba xanSiSesul ebSi

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis rux cximovan qsovil s?
- \\ gvxdvdeba axal Sobil ebSi
- \\ cil indrul i formis uj redebisagan Sedgeba
- \\ uj redebis citopl azma cximis erT did wveTs Seicavs
- \\ cximis wveTebi biomembraniT aris SemosazRvrul i

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis mxol od TeTr cximovan qsovil s?
- \\ Seicavs didi raodenobiT sisxl ZarRvebs
- \\ Seicavs cil a Termogenins
- \\ Seicavs cximis erT wveTs
- \\ monawil eobs cximis dagrovebaSi

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis rux cximovan qsovil s?
- \\ ruxi cximovani qsovil is uj redebi erT did cximovan wveTs Seicavs.
- \\ ruxi cximovani qsovil i siTbos warmoqmnaSi monawil eobs
- \\ rux adipocitebSi birTvi eqscentrul i mdebareobiT xasiaTdeba
- \\ ruxi cximovani qsovil i mcire raodenobiT sisxl ZarRvebs Seicavs

- \\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis rux cximovan qsovil s?
- \\ igi farTod aris gavrcel ebul i mozrdil ebSi
- \\ Seicavs cximis erT did wveTs
- \\ monawil eobs siTbos warmoqmnaSi
- \\ Seicavs mcire raodenobiT sisxl ZarRvebs

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan romel Si gvxdvdeba hial inuri xrtil i?
- \\ boqvenis simfizi
- \\ mal TaSua diskoebi
- \\ sasaxsre zedapirebi
- \\ yuris niJara

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan romel Si gvxdvdeba kol agenurboWkovani xrtil i?
- \\ sasaxsre zedapirebi
- \\ xorxsarqvel i
- \\ boqvenis simfizi
- \\ Tavis qal as nakerebi

- \\ \\ \\ qvemoT CamoTvl il i qsovil ebidan roml is Semadgenl obaSi gvxdvdeba didi raodenobiT Il tipis kol agenuri fibril ebi?
- \\ Zvl ovani qsovil i
- \\ hial inuri xrtil i
- \\ faSari SemaerTebel i qsovil i
- \\ cximovani qsovil i

- \\ \\ \\ qvemoT CamoTvl il i ubnebidan romel Si gvxdvdeba kol agenurboWkovani xrtil i?
- \\ mal TaSua disko
- \\ sasaxsre zedapirebi

\\l qal as nakerebi
\\l neknebis dabol oebebi

\\l\\l qvemoT CamoTvl il i uj redebidan romel i warmoqmniS xrtil ovani qsovil is
uj redSor is matriqsS?

\\l fibrobl asti
\\l qondrociti
\\l qondrobl asti
\\l fibrociti

\\l\\l qvemoT CamoTvl il i struqturebidan romel Si ar gv xvdeba hial inuri
xrtil i?

\\l xorxsarqvel i
\\l sasaxsre zedapirebi
\\l traqea
\\l bronqebi

\\l\\l qvemoT CamoTvl il i struqturebidan romel Si gv xvdeba el astikuri
xrtil i?

\\l xorxsarqvel i
\\l boqvenis simfizi
\\l traqea
\\l mal TaSua disko

\\l\\l qvemoT CamoTvl il i struqturebidan romel Si ar gv xvdeba el astikuri
xrtil i?

\\l xorxsarqvel i
\\l xorxi
\\l yuris ni Jara
\\l bronqebi

\\l\\l qvemoT CamoTvl il i ubnebidan sad mdebareobs hial inur xrtil Si
qondrocitebi?

\\l izogenur j gufebSi
\\l xrtil is periferiaze
\\l kafsul ur matriqsSi
\\l kafsul aTaSor is matriqsSi

\\l\\l qvemoT CamoTvl il i ubnebidan romel Si gv xvdeba hial inuri xrtil i?

\\l boqvenis simfizi
\\l mal TaSua diskoebi
\\l sasaxsre zedapirebi
\\l yuris ni Jara

\\l\\l qvemoT CamoTvl il i ubnebidan romel Si gv xvdeba kol agenurboWkovani
xrtil i?

\\l sasaxsre zedapirebi
\\l xorxsarqvel i
\\l boqvenis simfizi
\\l Tavis qal as nakerebi

\\l\\l qvemoT CamoTvl il i qsovil ebidan roml is Semadgenl obaSi gv xvdeba didi
raodenobiT Il tipis kol agenuri fibril ebi?

\\l Zvl ovani qsovil i
\\l hial inuri xrtil i
\\l faSari SemaerTebel i qsovil i

\\ cximovani qsovil i

\\ \\ qvemoT CamoTvl il i ubnebidan romel Si gv xvdeba kol agenurboWkovani xrt il i?

\\ mal TaSua disko

\\ \\ sasaxsre zedapirebi

\\ \\ qal as nakerebi

\\ \\ neknebis dabol oebebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoqmni s xrt il ovani qsovil is uj redSor is matriqss?

\\ \\ fibrobl asti

\\ \\ qondrociti

\\ \\ qondrobl asti

\\ \\ fibrociti

\\ \\ qvemoT CamoTvl il i struqtirebidan romel Si ar gv xvdeba hial inuri xrt il i?

\\ \\ xorxsarqvel i

\\ \\ sasaxsre zedapirebi

\\ \\ traqea

\\ \\ bronqebi

\\ \\ qvemoT CamoTvl il i struqtirebidan romel Si gv xvdeba el astikuri xrt il i?

\\ \\ xorxsarqvel i

\\ \\ boqvenis simfizi

\\ \\ traqea

\\ \\ mal TaSua disko

\\ \\ qvemoT CamoTvl il i struqtirebidan romel Si ar gv xvdeba el astikuri xrt il i?

\\ \\ xorxsarqvel i

\\ \\ xorxi

\\ \\ yuris niJara

\\ \\ bronqebi

\\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs hial inur xrt il Si qondrocitebi?

\\ \\ izogenur j gufebSi

\\ \\ xrt il ovani qsovil is periferiaze

\\ \\ kafsul ur matriqsSi

\\ \\ kafsul aTaSor is matriqsSi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs uj redSor is nivTierebas, romel ic izogenur j gufebSi mdebareobs?

\\ \\ kafsul uri matriqsi

\\ \\ teritoriul i matriqsi

\\ \\ interkafsul uri matriqsi

\\ \\ xrt il sazrdel a

\\ \\ qvemoT CamoTvl il qsovil Ta romel tips miekuTvneba xrt il i?

\\ \\ kunTovani

\\ \\ nervul i

\\ \\ xrt il ovani

\\ \\ SemaerTebel i

\\ \\ xrtiL ovani qsovil is ramdeni tipi arsebobs?

- \\ \\ 1
- \\ \\ 2
- \\ \\ 3
- \\ \\ 4

\\ \\ qvemoT CamoTvl il i sivrceebidan romel Si mdebareobs qondrociti?

- \\ \\ dises sivrceSi
- \\ \\ mel is sivrceSi
- \\ \\ vakuol Si
- \\ \\ I akunaSi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba evstaqis I ul aSi?

- \\ \\ hial inuri xrtiL i
- \\ \\ el astiuri xrtiL i
- \\ \\ kol agenurboWkovani xrtiL i
- \\ \\ arcerTi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis mal TaSua diskos?

- \\ \\ hial inuri xrtiL i
- \\ \\ el astiuri xrtiL i
- \\ \\ kol agenurboWkovani xrtiL i
- \\ \\ arcerTi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan roml isTvis aris damaxasiaTebel i el astiuri boWkoebis arseboba?

- \\ \\ hial inuri xrtiL i
- \\ \\ el astiuri xrtiL i
- \\ \\ kol agenurboWkovani xrtiL i
- \\ \\ arcerTi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan roml isTvis aris damaxasiaTebel i kargad ganviTarebul i sisxl ZarRvovani qsel i?

- \\ \\ hial inuri xrtiL i
- \\ \\ el astiuri xrtiL i
- \\ \\ kol agenurboWkovani xrtiL i
- \\ \\ arcerTi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba xorxSi?

- \\ \\ hial inuri da el astiuri xrtiL i
- \\ \\ el astiuri da kol agenurboWkovani xrtiL i
- \\ \\ kol agenurboWkovani xrtiL i
- \\ \\ arcerTi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan roml sTvis aris damaxasiaTebel i ganmWvirval e matriqsi?

- \\ \\ hial inuri xrtiL i
- \\ \\ el astiuri xrtiL i
- \\ \\ kol agenurboWkovani xrtiL i
- \\ \\ arcerTi

\\ \\ xrtiL ovani qsovil is qvemoT CamoTvl il i tipebidan romel i aris yvel aze mraval ricxovani?

- \\ \\ hial inuri xrtiL i

\\ el astiuri xrti l i
\\ kol agenurboWkovani xrti l i
\\ arcerTi

\\ \\ xrti l ovani qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba
gareTa yurSi?

\\ hial inuri xrti l i
\\ el astiuri xrti l i
\\ kol agenurboWkovani xrti l i
\\ arcerTi

\\ \\ xrti l ovani qsovil is qvemoT CamoTvl il i tipebidan romel i gv xvdeba
neknebis Semadgenl obaSi?

\\ hial inuri xrti l i
\\ el astiuri xrti l i
\\ kol agenurboWkovani xrti l i
\\ arcerTi

\\ \\ qvemoT CamoTvl il i saxel wodebebidan romel i aRniSnavs xrti l ovani
qsovil is garSemo arsebul SemaerTebel qsovil s?

\\ periosteumi
\\ periqondriumi
\\ perinerviumi
\\ endosteumi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan, romel i aRniSnavs xrti l ovani
qsovil is momwifebul uj reds?

\\ qondrociti
\\ qondrobl asti
\\ osteociti
\\ osteokl asti

\\ \\ sisxl momaragebis mixedviT xrti l ovani qsovil isTvis damaxasiaTebel ia:

\\ minimal uri sisxl momarageba
\\ ormagi sisxl momarageba
\\ Zl ieri sisxl momarageba
\\ sisxl ZarRvebis ararseboba

\\ \\ xrti l ovani qsovil is qvemoT CamoTvl il i tipebidan roml isTvis aris
damaxasiaTebel i kol agenuri boWkoebis sqel i konebis arseboba:

\\ hial inuri xrti l i
\\ el astiuri xrti l i
\\ kol agenurboWkovani xrti l i
\\ arcerTi

\\ \\ xrti l ovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis
epifizur firfitas?

\\ hial inuri xrti l i
\\ el astiuri xrti l i
\\ kol agenurboWkovani xrti l i
\\ arcerTi

\\ \\ qsovil Ta qvemoT Camovl il i tipebidan romel i qmnis sasul es rkal ebs?

\\ hial inuri xrti l i
\\ kol agenurboWkovani xrti l i
\\ el astiuri xrti l i
\\ hial inuri da kol agenurboWkovani xrti l i

\\\\ romel i tipis xrtil i qmnis xorxsarqvel i?
\\ hial inuri xrtil i
\\ kol agenurboWkovani xrtil i
\\ el astiuri xrtil i
\\ arcerTi

\\\\ romel i tipis xrtil i gvxdება safeTqel _qvedaybis saxsarSi?
\\ hial inuri xrtil i
\\ el astiuri xrtil i
\\ kol agenurboWkovani xrtil i
\\ arcerTi

\\\\ qvemoT CamoTvl il i ubnebidan sad ar gvxdება xrtil sazrdel a?
\\ traqeis xrtil ovani rgol ebi
\\ sasaxre zedapiris xrtil i
\\ el astiuri xrtil i
\\ neknebis xrtil ovani dabol oeba

\\\\ qvemoT CamoTvl il i struqturebidan romel i ar gvxdება
xrtil sazrdel aSi?
\\ sixl ZarRvebi
\\ qondrobl astebis winamorbedi uj redebi
\\ kol agenuri boWkoebi
\\ qondrociti

\\\\ qvemoT CamoTvl il i procesebidan romel Si ar monawil eobs
xrtil sazrdel a?
\\ xrtil is intersticiul i zrda
\\ xrtil is apoziciuri zrda
\\ xrtil is regeneracia
\\ qondrobl astebis warmoqmna

\\\\ qvemoT CamoTvl il i struqturebidan romel i gvxdება didi raodenobiT
fibrozul xrtil Si?
\\ kol agenuri boWko
\\ el astikuri boWko
\\ retikul uri boWko
\\ ZiriTadi nivTiereba

\\\\ qvemoT CamoTvl il i Zvl ovani uj redebidan romel s aqvs Zvl is matriqsis
daSl is unari?
\\ osteobl asti
\\ osteokl asti
\\ osteociti
\\ osteoprogeni tori

\\\\ qvemoT CamoTvl il Tagan romel i termini aRniSnavs Rrus, romel Sic
osteociti mdebareobs?
\\ foso
\\ I akuna
\\ ormo
\\ Rru

\\\\ qvemoT CamoTvl il i uj redebidan romel i warmoqmnis Zvl ovani qsovil is
uj redSor is nivTierebas?
\\ osteobl asti

- \\ osteociti
- \\ osteoklasti
- \\ osteoprogenitori

- \\\ qvemoT CamoTvl il i romel sar asrul ebs Zvl ovani qsovil i?
- \\ sayrdeni
- \\ kalciumis depo
- \\ damcvel obiti
- \\ trofikuli

- \\\ qvemoT CamoTvl il Tagan romel i qmnis epifizur firfitas?
- \\ elastikuri xrtili
- \\ kolagenurboWkovani xrtili
- \\ hialinuri xrtili
- \\ kompakturi Zvali

- \\\ qvemoT CamoTvl il Tagan ra ewodeba patara arxebs Zvl ovan qsovil Si?
- \\ kanalikul ebi
- \\ Sarpeis boWkoebi
- \\ trabekul ebi
- \\ lakunebi

- \\\ Zvl ovani qsovil is qvemoT CamoTvl il i uj redebidan romel ia dabal diferencirebul i?
- \\ osteoklasti
- \\ osteoni
- \\ osteociti
- \\ osteoblasti

- \\\ qvemoT CamoTvl il Tagan romel i faravs Zval s garedan?
- \\ perimiziumi
- \\ periosteumi
- \\ periqondriumi
- \\ endosteumi

- \\\ qvemoT CamoTvl il Tagan romel i qmnis Zvl is sasaxsre zedapirs?
- \\ Rrubl isebri Zvali
- \\ kompakturi Zvali
- \\ hialinuri xrtili
- \\ elastikuri xrtili

- \\\ qvemoT CamoTvl il Tagan romel i termini Seesabameba haversis sistemas?
- \\ osteoklasti
- \\ osteoni
- \\ osteociti
- \\ osteoidi

- \\\ qvemoT CamoTvl il Tagan romel i termini aRniSnavs gaukirav Zvl ovan matriqs?
- \\ osteoklasti
- \\ osteoni
- \\ osteociti
- \\ osteoidi

- \\\ Zvl ovani qsovil is qvemoT CamoTvl il i uj redebidan romel ia mraval birtviani?
- \\ osteoklasti

- \\ osteoni
- \\ osteociti
- \\ osteobl asti

\\ \\ qvemoT CamoTvl il Tagan romel i warmoadgens cil indrul i formis struqturas firfitovan Zvl ovani qsovil Si?

- \\ osteokl asti
- \\ osteoni
- \\ osteociti
- \\ osteoidi

\\ \\ Zvl ovani qsovil is qvemoT CamoTvl il i uj redebidan romel i mdebareobs I akunaSi?

- \\ osteokl asti
- \\ osteoni
- \\ osteociti
- \\ osteobl asti

\\ \\ qvemoT CamoTvl il Tagan romel s miekuTvneba Sarpeis boWkoebi?

- \\ el astikuri boWkoebi
- \\ kol agenuri boWkoebi
- \\ retikul uri boWkoebi
- \\ mkvrivi uformo SemaerTebel i qsovil i

\\ \\ qvemoT CamoTvl il i qsovil ebis ZiriTadi tipebidan romel s miekuTvneba Zval i?

- \\ epiTel uri qsovil i
- \\ SemaerTebel i qsovil i
- \\ kunTovani qsovil i
- \\ nervul i qsovil i

\\ \\ qvemoT CamoTvl il Tagan romel i amofens Zval s Signidan?

- \\ perimiziumi
- \\ periosteumi
- \\ periqondriumi
- \\ endosteumi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis osteons (haversis sistemas?)

- \\ tl anqboWkovani Zvl ovani qsovil iT iqmneba
- \\ kompaqturi Zvl is morfo-funqciuri erTeul ia
- \\ Sarpeis boWkoebs Seicavs
- \\ gareTa general uri firfitebis Sris SeqmnaSi monawil eobs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis osteons (haversis sistemas?)

- \\ kol agenuri (oseinuri) boWkoebis mouwesrigebel i ganl ageba
- \\ gvxdaba rogorc firfitovan ise tl anqboWkovan Zval Si
- \\ ar Seicavs sisxl ZarRvebs da nervebs
- \\ koncentrul i Zvl ovani cil indrebiT iqmneba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis osteonis kol agenur (oseinis) boWkoebs?

- \\ mouwesrigebel i ganl ageba firfitaSi
- \\ yvel a firfitaSi erTi mimarTul ebiT ganl ageba
- \\ sxvadasxva firfitaSi sxvadasxva mimarTul ebiT ganl ageba
- \\ firfitebs Soris ganl ageba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS Zvl is gardaqmnis (remodel irebis) process?

\\ mxol od embrionul periodSi gvxdება

\\ \\ mTel i cxovrebis manZil ze grZel deba

\\ \\ axal i osteonebis warmoqmnas ganapirobebs

\\ \\ mzardi Zvl is meqanikuri stresTan Seguebas ganapirobebs

\\ \\ grZel i Zvl is qvemoT CamoTvl il i ubnebidan sad warmoiqmneba gaZval ebis pirvel adi centri?

\\ \\ epifizi

\\ \\ metafizi

\\ \\ diafizi

\\ \\ saxsari

\\ \\ grZel i Zvl ebis qvemoT CamoTvl il i ubnebidan sad warmoiqmneba gaZval ebis meoradi centrebi?

\\ \\ epifizi

\\ \\ metafizi

\\ \\ diafizi

\\ \\ saxsari

\\ \\ qvemoT CamoTvl il i uj rebebidan romel i mdebareobs houSifis I akunaSi?

\\ \\ osteobl asti

\\ \\ osteociti

\\ \\ osteokl asti

\\ \\ poxieri uj redi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS vol kmanis arxs?

\\ \\ haversis sistemebs akavSirebs erTmaneTTan

\\ \\ Seicavs sisxl ZarRvebs

\\ \\ koncentrul i Zvl ovani firfitebiT aris garSemortymul i

\\ \\ umetes SemTxvevaSi ganivi mdebareoba aqvs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS osteokl astebs?

\\ \\ erTi birTvi

\\ \\ houSifis I akunaSi mdebareoba

\\ \\ monocituri warmoSoba

\\ \\ Tavisufal i zonis arseboba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS osteobl asts?

\\ \\ mravl birTvianoba

\\ \\ mkveTrad acidofil uri citopl azma

\\ \\ uSual od peri- da endosteumis qveS mdebareoba

\\ \\ Zvl ovani matriqsis daSl is unari

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i warmoadgens ConCxis kunTis individual uri uj redis saxel wodebas?

\\ \\ miotomi

\\ \\ miofil amenti

\\ \\ kunTovani boWko

\\ \\ miofibril a

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba mkvri v SemaerTebel qsovil s, romel ic gars akravs kunTs?

\\ sarkol ema
\\ perimizi umi
\\ epimizi umi
\\ endimizi umi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba mkvriv
SemaerTebel qsovil s, romel ic gars akravs kunTovani boWkoebis konas?

\\ sarkol ema
\\ perimizi umi
\\ epimizi umi
\\ endimizi umi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba faSar
SemaerTebel qsovil s, romel ic gars akravs individual ur kunTovan boWkos?

\\ sarkol ema
\\ perimizi umi
\\ epimizi umi
\\ endimizi umi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs kunTovani uj redis
garss?

\\ sarkol ema
\\ endimizi umi
\\ perimizi umi
\\ epimizi umi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis ConCxis
kunTovan qsovil s?

\\ mraval birTvianoba
\\ ganivzol ianoba
\\ wagrZel ebul i forma
\\ birTvis central uri mdebareoba

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan roml is arsebobaa damaxasiaTebel i
ganivzol iani kunTovani boWkosaTvis?

\\ CarTul i disko
\\ mkvrivi sxoul akebi
\\ motorul i bal Ta
\\ ganivi anastomozebi

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i monawil eobs upiratesad kunTovani
uj redebis SekumSvis procesSi?

\\ aqtini da miogl obini
\\ aqtini da miozini
\\ miogl obini da kol ageni
\\ miozini da miogl obini

\\ \\ \\ qvemoT CamoTvl il i struqtirebidan romel i warmoadgens uSual od ConCxis
ganivzol iani kunTovani boWkos SemkumSav aparats?

\\ sarkol emis Canadrekebi
\\ miofibril ebi
\\ ganivi mil akebi
\\ sarkosomebi

\\ \\ \\ kunTovani uj redis qvemoT CamoTvl il i struqtirebidan romel i iqmneba
desmini T?

\\ A disko

\\ I disko
\\ Z zol i
\\ H zol i

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i ar axasiaTebS
ConCxis ganivzol ian kunTovan boWkos?
\\ birTvebis periferiul i mdebareoba
\\ triadebi
\\ diadebi
\\ didi raodenobiT mitogondriebi

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebS
ConCxis ganivzol ian kunTovan boWkos?
\\ mraval birTvianoba
\\ birTvis central uri mdebareoba
\\ CarTul i disko
\\ mkvrivi sxeul akebi

\\ \\ miozinis mol ekul is qvemoT CamoTvl il i ubnebidan romel i xasiaTdeba atf-
azuri aqtivobiT?
\\ mZime meromiozini
\\ msubuqi meromiozini
\\ miozinis Tavi
\\ miozinis kudi

\\ \\ qvemoT CamoTvl il i komponentebidan romel i Sedis triadis
Semadgenl obaSi?
\\ A disko da mezobel i ori I diskos naxevari
\\ aqtinis ori da miozinis erTi fil amenti
\\ Tmil aki da sarkopl azmuri badis ori cisterna
\\ aqtini, troponini da tropomiozini

\\ \\ qvemoT CamoTvl il i komponentebidan romel i Sedis sarkomeris
Semadgenl obaSi?
\\ A disko da mezobel i ori I diskos naxevari
\\ aqtinis ori da miozinis erTi fil amenti
\\ Tmil aki da sarkopl azmuri badis ori cisterna
\\ aqtini, troponini da tropomiozini

\\ \\ qvemoT CamoTvl il i komponentebidan romel i Sedis Txel i fil amentebis
Semadgenl obaSi?
\\ A disko da mezobel i ori I diskos naxevari
\\ aqtinis ori da miozinis erTi fil amenti
\\ Tmil aki da sarkopl azmuri badis ori cisterna
\\ aqtini, troponini da tropomiozini

\\ \\ qvemoT CamoTvl il Tagan romel i monawil eobs anizotropul i diskos
Semadgenl obaSi?
\\ mxol od miozinis fil amentebi
\\ mxol od aqtinis fil amentebi
\\ sqel i da Txel i fil amentebi
\\ aqtini, tropomiozini da troponini

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS gul is kunTovan
uj redebs?
\\ simpl asturi Seneba

- \\ triadebi
- \\ CarTul i diskoebi
- \\ birTvis periferiul i mdebareoba

\\ \\ qvemoT CamoTvl il i kavSirebidan romel i Sedis CarTul i diskos Semadgenl obaSi?

- \\ desmosoma, hemidesmosoma, Camketi firfita
- \\ Camketi firfita, Sewebebis sartyel i, neqsusi
- \\ Sewebebis fascia, desmosoma, neqsusi
- \\ Sewebebis fascia, desmosoma, Camketi firfita

\\ \\ qvemoT CamoTvl il i organoebidan romel i iqmneba gl uvi kunTovani qsovil iT?

- \\ gul i
- \\ ena
- \\ kuWi
- \\ mxris orTava kunTi

\\ \\ qvemoT CamoTvl il Tagan romel i asrul ebs receptoris funqcias ConCxis ganivzol ian kunTSi?

- \\ motorul i bal Ta
- \\ kunTis TiTistara
- \\ motorul i erTeul i
- \\ neirotransmi teri

\\ \\ qvemoT CamoTvl il i struqturebidan romel i yofs Suaze anizotropul diskos?

- \\ A disko
- \\ I disko
- \\ Z zol i
- \\ M zol i

\\ \\ kunTovani qsovil is qvemoT CamoTvl il i saxeebidan romel i xasiaTdeba ganivzol ianobiT?

- \\ mxol od ConCxis
- \\ ConCxis da gul is
- \\ gul is da gl uvi
- \\ mxol od gul i

\\ \\ ConCxis kunTovani boWkos ganivkveTze ramdeni Txel i fil amenti mdebareobs erTi sqel i fil amentis irgvl iv?

- \\ 2
- \\ 4
- \\ 6
- \\ 8

\\ \\ qvemoT CamoTvl il i organoebidan romel i iqmneba ConCxis kunTovani qsovil iT?

- \\ ena
- \\ arteria
- \\ saSvil osno
- \\ sayl apavis qvemo mesamedi

\\ \\ qvemoT CamoTvl il i struqturebidan romel i yofs Suaze izotropul diskos SuaSi?

- \\ A disko

\\ I disko
\\ Z zol i
\\ M zol i

\\\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel s axasiaTebis
birTvis central uri mdebareoba?

\\ mxol od ConCxis kunTi
\\ ConCxis da gul is kunTi
\\ gul is da gl uvi kunTi
\\ ConCxis da gl uvi kunTi

\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs kunTovani boWkoebis
erTobl iobas romel ic erTi nervul i boWkoTi inervirdeba?

\\ motorul i bal Ta
\\ kunTis TiTistara
\\ motorul i erTeul i
\\ neirotransmi teri

\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba kunTovani uj redis
citopl azmas?

\\ sarkopl azma
\\ hial opl azma
\\ sarkol ema
\\ sarkosoma

\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba kunTovani uj redis
mitoqondrias?

\\ sarkopl azma
\\ hial opl azma
\\ sarkol ema
\\ sarkosoma

\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba kunTovani uj redis
gl uv endopl azmur bades?

\\ sarkopl azma
\\ sarkopl azmuri retikul umi
\\ sarkol ema
\\ sarkosoma

\\\ kunTovani qsovil is qvemoT CamoTvl il i saxeebidan roml isTvis aris
damaxasiaTebel i sarkomeris arseboba?

\\ ConCxis da gl uvi
\\ ConCxis da gul is
\\ gul is da gl uvi
\\ mxol od gl uvi

\\\ kunTovani qsovil is qvemoT CamoTvl il i saxeebidan roml isTvis aris
damaxasiaTebel i sarkomeris arseboba?

\\ ConCxis
\\ ConCxis da gul is
\\ gul is da gl uvi
\\ gl uvi

\\\ kunTovani qsovil is qvemoT CamoTvl il i saxeebidan roml isTvis aris
damaxasiaTebel i mkvrivi sxeul akebis arseboba?

\\ ConCxis
\\ ConCxis da gul is

\\ gul is da gl uvi
\\ gl uvi

\\ \\ kunTovani qsovil is saxeebidan romel i iqmneba TiTistarisebri formis
uj redebiT?
\\ ConCxis
\\ gul is
\\ gl uvi
\\ sami ve

\\ \\ kunTovani qsovil is saxeebidan romel i iqmneba datotil i formis
uj redebiT?
\\ ConCxis
\\ gul is
\\ gl uvi
\\ sami ve

\\ \\ kunTovani qsovil is saxeebidan romel s aqvs simpl asturi Seneba?
\\ ConCxis
\\ gul is
\\ gl uvi
\\ sami ves

\\ \\ qvemoT CamoTvl il i struqturebidan romel Ta Soris mdebareobs sarkomeri?
\\ ori mezobel i Z zol i
\\ A disko da I disko
\\ H zol i da Z zol i
\\ ori mezobel i M zol i

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs upiratesad
sarkopl azmuri retikul umi kunTovan uj redSi?
\\ Ca - is deponireba
\\ cil ebis sinTezi
\\ uj redSida monel eba
\\ nivTierebebis daxarisxeba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis T mil aks?
\\ Seicavs acetil qol inis recetorebs
\\ monawil eobs motorul i bal Tis SeqmnaSi
\\ boWkos siRmeSi nervul i impul sis gavrcel ebas uwyobs xel s
\\ warmoadgens Ca -is depos

\\ \\ ras warmoadgens T mil aki?
\\ sarkol emis mil isebri Canadreks
\\ endopl azmuri badis terminal uri cisternas
\\ motorul i bal Tis Semadgenel nawil s
\\ mitoqondriebis kristebis nairsaxeobaa

\\ \\ qvemoT CamoTvl il i struqturebidan romel i uzrunvel yofs boWkos siRmeSi
nervul i impul sis gavrcel ebas?
\\ sarkopl azmuri badis cisterna
\\ miosatel itociti
\\ T mil aki
\\ Z zol i

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i ar axasiaTebS
gl uv kunTovan boWkos?
\\ triadebis arseboba
\\ TiTistarisebri forma
\\ mkvrivi sxoul akebis arseboba
\\ birTvis central uri mdebareoba

\\ \\ qvemoT CamoTvl il i struqturul i Taviseburebebidan romel i axasiaTebS
gl uv kunTovan boWkos?
\\ mraval birTvianoba
\\ CarTul i diskoebis arseboba
\\ erTi birTvis arseboba
\\ T- mil akebis arseboba

\\ \\ qvemoT CamoTvl il i qimiuri nivTierebebidan roml is gamoyofa xdeba
nervul i impul sis sapsuxod nerv-kunTovan sinafsSi (ConCxis kunTSi?)
\\ acetil qol ini
\\ adrenal ini
\\ dofamini
\\ noradrenal ini

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba aqsoni s
dabol oebas nerv-kunTovan sinafsSi (ConCxis kunTSi?)
\\ sinafsuri napral i
\\ motorul i bal Ta
\\ sinafsuri buStuki
\\ terminal uri bal Ta

\\ \\ qvemoT CamoTvl il i struqturbebidan romel i uzrunvel yofs nervul i
impul sis Sesvl as ConCxis kunTovani boWkos siRrmeSi?
\\ endomiziumi
\\ sarkopl azmis T mil akebi
\\ sarkopl azmuri bade
\\ miofibril ebi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba erTi motorul i
neironisa da mis mier inervirebul i kunTovani boWkoebis erTobl iobas?
\\ motorul i bal Ta
\\ motorul i erTeul i
\\ sarkomeri
\\ sinafsuri dabol oeba

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs kunTovani qsovil i?
\\ sxoul is moZraoba
\\ pozis SenarCuneba
\\ Sinagan organoebSi sxvadasxva nivTierebebis gadaadgil eba
\\ organizmSi sxvadasxva nivTierebebis maragis Seqmna

\\ \\ qvemoT CamoTvl il i cil ebidan romel i Sedis sqel i fil amentis
Semadgenl obaSi?
\\ aqtini
\\ miozini
\\ troponini
\\ kol ageni

\\ \\ qvemoT CamoTvl il i cil ebidan romel i ar Sedis Txel i fil amentis
Semadgenl obaSi?

- \\ aqtini
- \\ troponini
- \\ tropomiozini
- \\ kal modul ini

\\ \\ \\ qvemoT CamoTvl il i cil ebidan romel i ar Sedis Txel i fil amentebis Semadgenl obaSi?

- \\ aqtini
- \\ troponini
- \\ tropomiozini
- \\ kol ageni

\\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i waroadgens ganivzol iani miofibril as struqturul -funqciur erTeul s?

- \\ sarkopl azmuri bade
- \\ sarkomeri
- \\ sarkol emis ganivi Canadrekebi
- \\ sarkosoma

\\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i waroadgens kal ciumis depos ConCxis ganivzol ian kunTovan boWkoSi?

- \\ mitoqondria
- \\ gol j is aparati
- \\ gl uvi endopl azmuri bade
- \\ l izosoma

\\ \\ \\ qvemoT CamoTvl il i kavSirebidan romel i ar Sedis CarTul i diskos Semadgenl obaSi?

- \\ Sewebebis fascia
- \\ Sewebebis sar tyel i
- \\ desmosoma
- \\ neqsusi

\\ \\ \\ CarTul i diskos qvemoT CamoTvl il i kavSirebidan romel i uzrunvel yofs impul is gavr cel ebas kardiomioci tebs Soris?

- \\ Sewebebis fascia
- \\ desmosoma
- \\ neqsusi
- \\ mkvrivi kontakti

\\ \\ \\ qvemoT CamoTvl il i kavSirebidan romel i Sedis CarTul i diskos Semadgenl obaSi?

- \\ mkvrivi kontakti
- \\ Sewebebis sar tyel i
- \\ Sewebebis fascia
- \\ hemi desmosoma

\\ \\ \\ CarTul i diskos qvemoT CamoTvl il i kavSirebidan romel i uzrunvel yofs miofibril ebis dakavSirebas sarkol emasTan?

- \\ Sewebebis fascia
- \\ desmosoma
- \\ neqsusi
- \\ mkvrivi kontakti

\\ \\ \\ qvemoT CamoTvl il i kunTovani uj redebidan romel i ukavSirdeba erTmaneTs CarTul i diskoebis meSveobi T?

- \\ ConCxis ganivzol iani kunTovani boWko?

- \\ gul is kunTovani uj redebi
- \\ \\ gl uvi kunTovani uj redebi
- \\ \\ mioepiTel uri uj redebi

\\ \\ \\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis Sinagani organoebis kunTovan garss umetes SemTxvevaSi?

- \\ \\ ConCxis ganivzol iani
- \\ \\ gul is ganivzol iani
- \\ \\ gl uvi
- \\ \\ mioepiTel uri

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons romel sac mxol od ori morCi aqvs?

- \\ \\ unipol arul i
- \\ \\ bipol arul i
- \\ \\ mul tipol arul i
- \\ \\ fsevdounipol arul i

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons romel sac mraval i morCi gaaCnia?

- \\ \\ unipol arul i
- \\ \\ bipol arul i
- \\ \\ mul tipol arul i
- \\ \\ fsevdounipol arul i

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons, romel ic mgrZnobiare da mamozravebel neironebs erTmaneTTan akavSirebs?

- \\ \\ motorul i
- \\ \\ endokrinul i
- \\ \\ asociaciuri
- \\ \\ sensorul i

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs neirons, roml is sxeul idan erTi morCi gamodis da Semdeg T-s magvarad iyofa?

- \\ \\ unipol arul i
- \\ \\ mul tipol arul i
- \\ \\ bipol arul i
- \\ \\ fsevdounipol arul i

\\ \\ \\ neironis qvemoT CamoTvl il i organel ebidan romel i qmnis nisl is bazofil ur nivTierebas?

- \\ \\ mitoqondriebi da gol j is aparati
- \\ \\ marcvl ovani da gl uvi endopl azmuri bade
- \\ \\ Tavisufal i pol isomebi da marcvl ovani endopl azmuri bade
- \\ \\ l izosomebi da peroqsisomebi

\\ \\ \\ qvemoT CamoTvl il i kavSirebidan romel i gv xvdeba nervul uj redebs Soris?

- \\ \\ desmosomebi
- \\ \\ mkvri vi konteqti
- \\ \\ neqsusi
- \\ \\ Sewebebis sar tyel i

\\ \\ \\ qvemoT CamoTvl il i kavSirebidan roml is meSveobi T ukavSirdeba erTmaneTs nervul i uj redebi?

- \\ \\ desmosoma
- \\ \\ sinafsi

- \\ mkvri vi kontakti
- \\ hemidesmosoma

- \\ \\ nervul i uj redis qvemoT CamoTvl il i nawil ebidan romel is irgvl iv iqmneba miel inis garsi?
- \\ perikarioni
- \\ aqsoni
- \\ aqsonis dabol oebe
- \\ dendriti

- \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis miel inis garss central ur nervul sistemaSi?
- \\ ol igodendrogl iocitebi
- \\ astrocitebi
- \\ ependimocitebi
- \\ mikrogl ia

- \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis miel inis garss periferiul nervul sistemaSi?
- \\ ol igodendrogl iocitebi
- \\ Svanis uj redebi
- \\ astrocitebi
- \\ ependimocitebi

- \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebss ranvies Seviwroebas?
- \\ didi raodenobit natriumis arxebs Seicavs
- \\ Txel i miel inis garsiT aris dafarul i
- \\ mxol od dendritebSi gvxxdeba
- \\ astrocitebis morCebiT iqmneba

- \\ \\ qvemoT CamoTvl il i struqturebidan romel s axasiaTebss ranvies Seviwroebebis arseboba?
- \\ perikarioni
- \\ umiel ino nervul i boWko
- \\ miel inuri nervul i boWko
- \\ aqso-somaturi sinafsi

- \\ \\ qvemoT CamoTvl il Tagan ra daniSnul eba aqvs ranvies Seviwroebas?
- \\ impul sis swraf gavr cel ebas uwyobs xel s
- \\ impul sis warmoqmnis ubania
- \\ uj redis trofikul i centria
- \\ aqsonis zrdas ganapirobebs

- \\ \\ nervul i uj redis qvemoT CamoTvl il i funqciuri tipebidan romel s ekuTvnis fsevdounipol arul i neironebi?
- \\ motorul i
- \\ asociaciuri
- \\ mgrZnobiare
- \\ endokrinul i

- \\ \\ nervul i uj redis qvemoT CamoTvl il i funqciuri tipebidan romel s ekuTvnis ufro xSirad bipol arul i neironebi?
- \\ motorul i
- \\ asociaciuri
- \\ mgrZnobiare
- \\ endokrinul i

\\ \\ \\ nervul i uj redis qvemoT CamoTvl il i funqciuri tipebidan romel s ekuTvnis ZiriTadad mul tipol arul i neironebi?

- \\ motorul i
- \\ \\ asociaciuri
- \\ \\ mgrZnobiare
- \\ \\ endokrinul i

\\ \\ \\ qvemoT CamoTvl il i daxasiaTebebidan romel i Seesabameba yvel aze zustad gol j is l tipis neironebs?

- \\ didi zomis, mul tipol arul i da motorul i
- \\ \\ didi zomis, mul tipol arul i da asociaciuri
- \\ \\ mcire zomis, bipol arul i da asociaciuri
- \\ \\ mcire zomis, fsevdounipol arul i da mgrZnobiare

\\ \\ \\ qvemoT CamoTvl il i neironebidan romel i miekuTvneba gol j is l tipis neironebs?

- \\ naTxemis purkinies
- \\ \\ zurgis tvinis asociaciuri
- \\ \\ naTxemis marcvl ovani Sris
- \\ \\ naTxemis varskvl avisebri Sris

\\ \\ \\ neirogl iis qvemoT CamoTvl il i uj redebidan romel s aqvs monocituri warmoSoba?

- \\ \\ ol igodendrogl ia
- \\ \\ astroci tebi
- \\ \\ mikrogl ia
- \\ \\ ependimoci tebi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs ol igodendrogl ioci tebi?

- \\ \\ nervul i impul sis generireba
- \\ \\ sayrdeni
- \\ \\ miel inis garsis Seqmna
- \\ \\ fagocitozi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs astrocituri gl ia?

- \\ \\ sayrdeni
- \\ \\ hema-encefal uri barrieris Seqmna
- \\ \\ miel inis garsis warmomna
- \\ \\ fagocitozi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs astrocituri gl ia?

- \\ \\ miel inis garsis Seqmna
- \\ \\ nervul i impul sis generireba
- \\ \\ Tavzurgtvinis siTxis absorbcia
- \\ \\ sayrdeni

\\ \\ \\ qvemoT CamoTvl il i gl iuri uj redebidan romel i qmnis hema-encefal ur barriers?

- \\ \\ ol igodendrogl iociti
- \\ \\ astrociti
- \\ \\ ependimociti
- \\ \\ gl iuri makrofagi

\\\\ qvemoT CamoTvl il i gl iuri uj redebidan romel i amofens Tavis tvinis parkuWebs da zurgis tvinis arxs?

- \\\\ ol igodendrogl iociti
- \\\\ astrociti
- \\ ependimociti
- \\\\ mikrogl ia

\\\\ gl iis qvemoT CamoTvl il i uj redebidan roml is saxel ia gl iuri makrofagi?

- \\\\ ol igodendrogl iocitis
- \\\\ astrocitis
- \\\\ ependimocitis
- \\ mikrogl iis

\\\\ qvemoT CamoTvl il Tagan romel i ar Sedis ruxi nivTierabis Semadgenl obaSi?

- \\\\ neironebis sxoul ebi
- \\ miel inuri nervul i boWkoebi
- \\\\ umiel ino nervul i boWkoebi
- \\\\ neirogl ia

\\\\ qvemoT CamoTvl il Tagan romel i ar gvxxdeba TeTr nivTierebaSi?

- \\\\ miel inuri nervul i boWkoebi
- \\\\ astrocitebi
- \\\\ ol igodendrogl iocitebi
- \\ perikarionebi

\\\\ zurgis tvinis qvemoT CamoTvl il i ubnebidan sad mdebareobs ruxi nivTiereba?

- \\\\ periferiaze
- \\\\ wina fesvSi
- \\\\ ukana fesvSi
- \\ central ur ubanSi, zurgis tvinis arxis irgvl iv

\\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba periferiul nervul sistemaSi funqciurad dakavSirebul i neironebis perikarionebis grovebis aRsaniSnavad?

- \\\\ traqtebi
- \\ kvanZebi
- \\\\ birTvebi
- \\\\ grovebi

\\\\ neironebis ramdeni Sre qmnis Tavis tvinis didi hemisferoebis qerqs?

- \\\\ 3
- \\\\ 4
- \\ 6
- \\\\ 7

\\\\ neironebis ramdeni Sre qmnis naTxemis qerqs?

- \\\\ 5
- \\ 3
- \\\\ 7
- \\\\ 4

\\\\ qvemoT CamoTvl il i neironebidan romel i qmnis mal TaSua kvanZs?

- \\\\ unipol arul i
- \\ fsevdounipol arul i

- \\ mul tipol arul i
- \\ bipol arul i

\\ \\ \\ qvemoT CamoTvl il i funqciuri tipebidan romel i qmnis mal TaSua kvanZs?

- \\ motorul i
- \\ sensorul i
- \\ asociaciuri
- \\ neiroendokrinul i

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i asrul ebs central ur nervul sistemaSi sayrden funqcias?

- \\ Svanis uj redi
- \\ astrociti
- \\ mikrogl ia
- \\ kal aTisebri uj redi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs nervul i uj redi sxeul s?

- \\ gangl ia
- \\ perikarioni
- \\ nisl is sxeul aki
- \\ motorul i bal Ta

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs central uri nervul i sistemis makrofags?

- \\ kupferis uj redi
- \\ mikrogl ia
- \\ I angerhansis uj redi
- \\ histioci ti

\\ \\ \\ Tavis da zurgis tvinis garsebidan romel i iqmneba faSari SemaerTebel i qsovil iT?

- \\ magari garsi
- \\ rbi l i garsi
- \\ araqnoidul i garsi
- \\ subaraqnoidul i sivrce

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs naTxemsa da Tavis tvinis did hemisferoebSi Rmad mdebare ruxi nivTierEBis grovebs?

- \\ traqtebi
- \\ kunZul ebi
- \\ birTvebi
- \\ kvanZebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs hema-encefal uri barrieris SeqmnaSi?

- \\ astrocitebi
- \\ ependimoci tebi
- \\ Svanis uj redebi
- \\ mikrogl ia

\\ \\ \\ qvemoT CamoTvl il i garsebidan romel i akravs gars nervul boWkoTa konas?

- \\ perinevriumi
- \\ perimizi umi
- \\ periqondriumi
- \\ periosteumi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs ruxi nivTierebis fenas, romel ic garedan faravs Tavis tvinis didi hemosferoebis?

\\ \\ traqti

\\ \\ birTvi

\\ \\ qerqi

\\ \\ garsi

\\ \\ \\ qvemoT CamoTvl il i garsebidan romel i akravs gars individual ur nervul boWkos?

\\ \\ endomi zi umi

\\ \\ endonevri umi

\\ \\ endotenoni umi

\\ \\ endosteumi

\\ \\ \\ qvemoT CamoTvl il i garsebidan romel i akravs gars nervs?

\\ \\ epi tenoni umi

\\ \\ epi nevri umi

\\ \\ epimi zi umi

\\ \\ epi kardi umi

\\ \\ \\ gl iis qvemoT CamoTvl il i uj redebidan romel ia yvel aze mraval ricxovani nervul sistemaSi?

\\ \\ ol igodendrogl iociti

\\ \\ astrociti

\\ \\ mikrogl ia

\\ \\ Svanis uj redi

\\ \\ \\ Tavis tvinis qvemoT CamoTvl il i garsebidan romel i iqmneba mkvrivi uformo SemaerTebel i qsovil iT?

\\ \\ magari garsi

\\ \\ araqnoidul i garsi

\\ \\ subaraqnoidul i garsi

\\ \\ rbil i garsi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs central ur nervul sistemaSi miel inuri nervul i boWkoebis konaTa erTobl iobas?

\\ \\ kunZul ebi

\\ \\ traqtebi

\\ \\ qerqi

\\ \\ birTvebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i gv xvdeba naTxemSi?

\\ \\ satel iti uj redi

\\ \\ kal aTisebri neironi

\\ \\ Svanis uj redi

\\ \\ endimociti

\\ \\ \\ neironebis qvemoT CamoTvl il i saxeebidan romel i Sedis baduris Semadgenl obaSi?

\\ \\ unipol arul i

\\ \\ fsevdounipol arul i

\\ \\ bipol arul i

\\ \\ mul tipol arul i

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis neirons?

\\ \\ sicocxl is didi xangrZl ivoba

- \\ maRal i metabol uri aqtivoba
- \\ impul sis generirebis da gatarebis unari
- \\ maRal i mitozuri aqtivoba

\\ \\ qvemoT CamoTvl il i meningeal uri garsebidan romel i faravs uSual od Tavis tvins?

- \\ magari
- \\ araqnoidul i
- \\ subaraqnoidul i
- \\ rbi i

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis astrocits?

- \\ monawil eobs hema-encefal uri barrieris SeqmnaSi
- \\ neironebs ionur da qimiur mikrogaremos uqmni s
- \\ monawil eobs miel inis garsis warmoqmnaSi
- \\ asrul ebs sayrdens funqcias

\\ \\ transportis qvemoT CamoTvl il i saxeebidan roml is meSveobiT xdeba sinafsur i buStukebis moZraoba aqsonSi

- \\ retrogradul i nel i
- \\ retrogradul i swrafi
- \\ anterogradul i swrafi
- \\ anterogradul i nel i

\\ \\ qvemoT CamoTvl il i motorul i cil ebidan roml ebi monawil eobs sinafsur i buStukebis transportSi?

- \\ aqsonemuri dineini
- \\ citopl azmuri dineini
- \\ kinezini
- \\ miozini

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis astrocits?

- \\ cil indrul i forma
- \\ miel inis garsis arseboba
- \\ Tav-zurgtvini s iTxis warmoqmna
- \\ hema-encefal uri barrieris SeqmnaSi monawil eoba

\\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad arteriebis tipebs?

- \\ el astikuri, kunTovan-el astikuri, kunTovani
- \\ kunTovani, ukunTo, el astikuri
- \\ somaturi, viscerul i, sinusoiduri
- \\ somaturi, kunTovani, ukunTo

\\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad venebis tipebs?

- \\ el astikuri, kunTovani
- \\ kunTovani, ukunTo
- \\ el astikuri, Sereul i
- \\ diafragmi ani, udiafragmo

\\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad kapil arebis tipebs?

- \\ somaturi, viscerul i, sinusoiduri
- \\ diafragmi ani, udiafragmo
- \\ kunTovani, ukunTo
- \\ el astikuri, Sereul i, kunTovani

\\ \\ ramdeni garsisgan Sedgeba sisxl ZarRvis kedel i?

- \\ 3

- \\ 4
- \\ 2
- \\ 5

\\\ SearCieT SigniT a garsis Sreebis swori Tanmimdevroba kunTovani tipis arteriaSi.

- \\ endoTel iumi, SigniT a el astikuri membrana, subendoTel uri Sre
- \\ endoTel iumi, subendoTel uri Sre, SigniT a el astikuri membrana
- \\ SigniT a el astikuri membrana, endoTel iumi, subendoTel uri Sre
- \\ subendoTel uri Sre, endoTel iumi, SigniT a el astikuri membrana

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si gvxxvdeba SigniT a el astikuri membrana?

- \\ kunTovani tipis vena
- \\ kunTovani tipis arteria
- \\ arteriol a
- \\ venul a

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si gvxxvdeba gareTa el astikuri membrana?

- \\ didi zomis kunTovani vena
- \\ didi zomis kunTovani arteria
- \\ ukunTo vena
- \\ arteriol a

\\\ qvemoT CamoTvl il i uj redebidan romel i qmnis sisxl ZarRvis SigniT a safarvel s?

- \\ gl uvkunTovani
- \\ fibrobl asti
- \\ endoTel uri
- \\ mezoTel uri

\\\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis sisxl ZarRvebis adventiciur garss?

- \\ SemaerTebel i
- \\ cximovani
- \\ retikul uri
- \\ kunTovani

\\\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis aortis Sua garss?

- \\ gl uvi kunTovani
- \\ faSari SemaerTebel i
- \\ el astikuri SemaerTebel i
- \\ mkvrivi SemaerTebel i

\\\ qvemoT CamoTvl il i arteriebidan romel i miekuTvneba el astikuri tipis arteriebs?

- \\ Tirkml is
- \\ aorta
- \\ kuWis
- \\ RviZl is

\\\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis gul - sisxl ZarRvTa sistemis SigniT a garsis endoTel ur Sres?

- \\ erTSriani kuburi
- \\ erTSriani cil indrul i
- \\ erTSriani brtyel i

\\ erTSriani mraVal rigiani

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i Seicavs yvel aze didi raodenobiT el astins Sua garsSi?

\\ aorta

\\ arteriol a

\\ somaturi kapil ari

\\ Rru venebi

\\ \\ qvemoT CamoTvl il i struqtirebidan romel i ganapirobebs winagul ebis SekumSvas gul is normul i ritmis SemTxvevaSi?

\\ sino-atriul i kvanZi

\\ atrio-ventrikul uri kvanZi

\\ hisis kona

\\ cTomil i nervi

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ar ekuTvnis makrocirkul aciur nawil s?

\\ arteriebi

\\ venebi

\\ didi zomis arteriol ebi

\\ kapil arebi

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ekuTvnis mikrocirkul aciur nawil s?

\\ arteria

\\ vena

\\ postkapil arul i venul a

\\ didi zomis arteriol a

\\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ar ekuTvnis mikrocirkul aciis nawil s?

\\ metarteriol a

\\ kapil ari

\\ postkapil arul i venul a

\\ didi zomis arteriol a

\\ \\ gul is qvemoT CamoTvl il i garsebidan romel i iqmneba ganivzol iani kunTovani qsovil iT?

\\ endokardi umi

\\ mi okardi umi

\\ perikardi umi

\\ epi kardi umi

\\ \\ qvemoT CamoTvl il i kapil arebidan romel i monawil eobs hema-encefal uri barrieris SeqmnaSi?

\\ somaturi

\\ sinusoiduri

\\ viscerul i diafragmiT

\\ viscerul i udiafragmod

\\ \\ arteriebis datotvasa da diametris SencirebasTan erTad el astikuri el ementebi:

\\ izrdeba

\\ mcirdeba

\\ saerTod qreba

\\ ar icvl eba

\\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si gvxxvdeba perici tebi?
\\ wril i venul ebi
\\ msxvil i venul ebi
\\ kunTovani tipis arteria
\\\\ venebi

\\\\ Tanamosaxel e arteriebTan SedarebiT venebis kedel i:
\\ ufro sqel i da nakl ebad el astikuria
\\ ufro Txel i da nakl ebad el astikuria
\\ ufro Txel i da metad el astikuria
\\ ufro sqel i da metad el astikuria

\\\\ qvemoT CamoTvl il i organoebidan romel Si gvxxvdeba portul i sistemis sisxl ZarRvebi?
\\ Tavis tvini
\\ hipofizi
\\ Tirkmel i
\\ kuWi

\\\\ qvemoT CamoTvl il Tagan ra mdebareobs perikardiumis RruSi?
\\ haeri
\\ sisxl i
\\ limfa
\\ serozul i siTxe

\\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i uzrunvel yofs sisxl is gadasvl as arteriul i sistemidan venurSi kapil arul i qsel is gamotovebiT?
\\ metarteriol ebi
\\ prekapil arul i arteriol ebi
\\ arteriol o-venul uri anastomozebi
\\ postkapil arul i venul ebi

\\\\ qvemoT CamoTvl il i ubnebidan sad mdebareobs peismeikeri uj redebi?
\\ sinoatriul i kvanZi
\\ atrioventrikul uri kvanZi
\\ hisis kona
\\ purkinies boWkoebi

\\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i ekuTvnis kunTovani tipis arterias?
\\ kuWis arteria
\\ mucl is aorta
\\ gul mkerdis aorta
\\ laviwqveSa arteria

\\\\ qvemoT CamoTvl il i organoebidan romel Si ar gvxxvdeba limfuri ZarRvebi?
\\ central uri nervul i sistema
\\ Tirkmel i
\\ RviZl i
\\ limfuri kvanZi

\\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis somaturi tipis kapil ars?
\\ gvxxvdeba egzokrinul jirkvl ebSi
\\ uwyveti endoteliumiTa da uwyveti bazal uri membraniT iqmneba
\\ monawil eobs hema-haerovani barieris SeqmnaSi

\\ ar Seicavs pericitebs

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebbs gul is tipiur (SemkumSav) kunTovan uj redebs?

- \\ miofibril ebis simcire
- \\ birTvis periferiul i mdebareoba
- \\ CarTul i diskoebis arseboba
- \\ sekreciul i granul ebis arseboba

\\\ qvemoT CamoTvl il i sisxl Zarvebidan romel s gamoaqvs sisxl i parkuWebidan?

- \\ kunTovani tipis arteria
- \\ el astikuri tipis arteria
- \\ Sereul i tipis arteria
- \\ arteriol a

\\\ gul is qvemoT CamoTvl il i ubnebidan sad aris miokardiumi yvel aze sqel i?

- \\ marj vena winagul i
- \\ marcxena winagul i
- \\ marj vena parkuWi
- \\ marcxena parkuWi

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebbs endokardiums?

- \\ Sreobrivi Seneba aqvs
- \\ Seicavs sisxl ZarRvebs
- \\ amofenil ia endoTel iumiT
- \\ Seicavs didi raodenobiT cximovan qsovil s

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel Si aqvs adgil i airTa cvl as?

- \\ arteria
- \\ arteriol a
- \\ kapil ari
- \\ venul a

\\\ qvemoT CamoTvl il i kapil arebidan romel Sia yvel aze aqtiuri pinocitozuri transporti?

- \\ somaturi
- \\ viscerul i diafragmiT
- \\ viscerul i diafragmis gareSe
- \\ sinusoiduri

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i mdebareobs arteriol asa da kapil ars Soris?

- \\ metarteria
- \\ metarteriol a
- \\ metvenul a
- \\ metkapil ari

\\\ qvemoT CamoTvl il i organoebidan romel i ar Seicavs sinusoidur kapil arebs?

- \\ RviZl i
- \\ el enTa
- \\ Zvl is wiTel i tvini
- \\ Timusi

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i aregul irebs kapil arul qsel Si Sesul i sisxl is raodenobas?

- \\ kapil ari
- \\ metarteriol a

- \\ arteriola
- \\\ arteria

\\\ qvemoT CamoTvl il i sisxl ZarRvebidan romel s gamoaqvs sisxl i kapil arul i qsel idan?

- \\\ kapil ri
- \\\ vena
- \\ venula
- \\\ arteriol o-venul uri anastomozi

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebse l astikur arteriebs?

- \\\ sisxl i gamoaqvT gul idan
- \\\ didi raodenobiT fenestrian el astikur membranebse Scicavs
- \\ mediaSi didi raodenobiT kunTovan boWkoebs Scicavs
- \\\ adventiciaSi ZarvTaZarRvebs Scicaven

\\\ sisxl is qvemoT CamoTvl il i uj redebidan romel i ar ekuTvnis l eikocitebs?

- \\ sisxl is firfitebi
- \\\ neitrofil ebi
- \\\ monocitebi
- \\\ l imfocitebi

\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba sisxl is uj redSorisi nivTierebis aRsani Snavad?

- \\\ matriqsi
- \\\ l imfa
- \\ pl azma
- \\\ ZiriTadi nivTiereba

\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs eriTrociti?

- \\\ antisxeul ebis sinTezi
- \\ Jangbadis transporti
- \\\ fagocitozi
- \\\ pl azmis cil ebis sinTezi

\\\ qvemoT CamoTvl il Tagan rogori forma aqvs momwifebul eriTrocits?

- \\\ kuburi
- \\ ormxrivCazneqil i
- \\\ mraval kuTxa
- \\\ sferosebri

\\\ qvemoT CamoTvl il i uj redebidan romel i ar ekuTvnis marcvl ovan l eikocitebs?

- \\\ bazofil i
- \\\ eozinofil i
- \\\ neitrofil i
- \\ monociti

\\\ qvemoT CamoTvl il i uj redebidan romel i ar ekuTvnis marcvl ovan l eikocitebs?

- \\\ bazofil i
- \\\ eozinofil i
- \\\ neitrofil i
- \\ l imfociti

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs bazofil uri
I eikociti?

\\ \\ fagocitozi

\\ \\ al ergiul reaqciebSi monawil eoba

\\ \\ antisxeul ebs sinTezi

\\ \\ pl azmis cil ebs sinTezi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs neitrofil uri
I eikociti?

\\ \\ \\ antisxeul ebs sinTezi

\\ \\ \\ Jangbadis transporti

\\ \\ \\ parazitul i Wiebisagan dacva

\\ \\ \\ fagocitozi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs eozinofil uri
I eikociti?

\\ \\ \\ pl azmis cil ebs sinTezi

\\ \\ \\ al ergiul reaqciebSi monawil eoba

\\ \\ \\ antisxeul ebs warmoqmna

\\ \\ \\ sisxl is Sededebis regul acia

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ekuTvnis umarcvl o I eikocitebs?

\\ \\ \\ monociti

\\ \\ \\ eozinofil i

\\ \\ \\ bazofil i

\\ \\ \\ Trombociti

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ekuTvnis umarcvl o I eikocitebs?

\\ \\ \\ I imfociti

\\ \\ \\ neitrofil i

\\ \\ \\ bazofil i

\\ \\ \\ eozinofil i

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs monociti?

\\ \\ \\ warmoqmnis makrofags

\\ \\ \\ asinTezebs antisxeul ebs

\\ \\ \\ monawil eobs sisxl is SededebaSi

\\ \\ \\ warmoqmnis pl azmis cil ebs

\\ \\ \\ qvemoT CamoTvl il i procesebidan romel Si monawil eobs I imfociti?

\\ \\ \\ imunuri pasuxis Camoyal ibeba

\\ \\ \\ fagocitozi

\\ \\ \\ pl azmis cil ebs sinTezi

\\ \\ \\ sisxl is Sededebis regul acia

\\ \\ \\ ramden dRes Seadgens cirkul aciaSi myofi eriTrocitebis sicocxl is
saSual o xangrZl ivoba?

\\ \\ \\ 80

\\ \\ \\ 120

\\ \\ \\ 70

\\ \\ \\ 240

\\ \\ \\ qvemoT CamoTvl il i I eikocitebidan romel ia yvel aze mcirericxovani
sisxl Si?

\\ \\ \\ neitrofil i

\\ \\ \\ eozinofil i

\\ \\ \\ monociti

\\ bazofil i

\\\ qvemoT CamoTvl il i l eikocitebidan romel i yvel aze mraval ricxovani sisxl Si?

\\ neitrofil i

\\\ l imfociti

\\\ monociti

\\\ bazofil i

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS Trombocitebs?

\\ didi zomis mraval birTviანი უჯრედია

\\ megakariocitis citopl azmis fragmantebia

\\\ umwifari l eikocitebia

\\\ l imfoiduri უჯრედია

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS eriTrociTS?

\\ oval uri formis mraval birTviანი უჯრედია

\\ ormxrivCazneqil i უჯრედია central urad moTAvsebul i birTviT

\\ ormxrivCazneqil i formis ubirTvo უჯრედია

\\\ mrgval i formis mraval birTviანი უჯრედია

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel Si xdeba sisxl is yvel a უჯრედის თბობა?

\\ el enTa

\\ Zvl is wiTel i tvini

\\\ l imfuri kvanZi

\\\ Timusi

\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs Trombociti?

\\ Jangbadis transporti

\\ baqteriebis fagocitozi

\\ sisxl is Sededeba

\\ antisxeul ebs sinTezi

\\\ qvemoT CamoTvl il i organoebidan romel i mdebareobs l imfuri sadinrebis gzebze?

\\ Zvl is wiTel i tvini

\\ l imfuri kvanZi

\\\ el enTa

\\\ Timusi

\\\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs hemogl obini?

\\ icavs eriTrociTis dnm-s

\\ monawil eobs eriTrociTis თბობაSi

\\ monawil eobs Jangbadis transportSi

\\ თბობის ანტიხეულ ebs

\\\ qvemoT CamoTvl il i sisxl is formiani el ementebidan romel i warmoadgens megakariocitebis fragmentebS?

\\ neitrofil i

\\ bazofil i

\\\ eriTrociTi

\\ Trombociti

\\\ qvemoT CamoTvl il i pl azmis cil ebidan romel i gv xvdeba yvel aze didi raodenobiT sisxl Si?

\\ al buminebi

- \\ gl obul ine bi
- \\ hemogl obini
- \\ fibrinogeni

\\ \\ qvemoT CamoTvl il i pl azmis cil ebidan romel i uzrunvel yofs sisxl is osmosuri wnevis SenarCunebas?

- \\ fibrinogeni
- \\ al bumini
- \\ imunogl obul ine bi
- \\ proTrombini

\\ \\ maRal mTian raione bSi mcxovre b adami nebs eriTroci tebis Semcvel oba bevr ad ufro maRal i aqvT. qvemoT CamoTvl il i mizezebidan romel i ganapirobebs aRniSnul movl enas?

- \\ dabal i temperatura
- \\ maRal i temperatura
- \\ Jangbadis dabal i wneva
- \\ Jangbadis maRal i wneva

\\ \\ qvemoT CamoTvl il i uj redebidan romel i miel oiduri rigis umarcvl o l eikociti?

- \\ monociti
- \\ l imfociti
- \\ bazofil i
- \\ neitrofil i

\\ \\ qvemoT CamoTvl il Tagan raze miuTiTeb s retikul ocitebis raodenobis mateba periferiul sisxl Si?

- \\ eriTroci tebis warmoqmni s gaZl ierebaze
- \\ sisxl is spontanur Sededebaze

\\ \\ baqteriul i infeqciebis dros rogorc wesi sisxl Si l eikocitebis raodenoba matul obs. qvemoT CamoTvl il i uj redebidan roml is matebis xarj ze mimdinareobs aRniSnul i movl ena?

- \\ neitrofil ebi
- \\ bazofil ebi
- \\ l imfocitebi
- \\ eozinofil ebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ganapirobebs gadanergvis SemTxvevaSi transpl antatis mocil ebas?

- \\ bazofil i
- \\ eozinofil i
- \\ monociti
- \\ l imfociti

\\ \\ qvemoT CamoTvl il i uj redebidan roml is raodenoba iqneba momatebul i parazitul i infeqciis mqone avadmyofis sisxl is nacxSi?

- \\ neitrofil ebi
- \\ eozinofil ebi
- \\ monocitebi
- \\ bazofil ebi

\\ \\ qvemoT CamoTvl il Tagan romel i ganapirobebs marcvl ovani l eikocitebis kl asifikacias neitrofil ebad, eozinofil ebad da bazofil ebad?

- \\ citopl azmSi l izosomebis sxvadasxva raodenobiT arseboba
- \\ mitoqondrie bsa da peroqsisomebis gansxvavebul i Semcvel oba

\\ citoplazmā arsebul i granul ebi svadasva SeRevis unarianoba
\\ marcvi ovni endoplazmuri badis ganvi Tarebis gansxvavebul i xarisxi

\\ \\ \\ sisxi is qvemoT CamoTvi il i uj redebidan romel i iwebs fagocitur
aktivobas sisxi idan SemaerTebel qsovil Si gadasvi is Semdeg?

- \\ \\ bazofil i
- \\ \\ limfociti
- \\ \\ monociti
- \\ \\ Trombociti

\\ \\ \\ limfocitebis qvemoT CamoTvi il i uj redebidan romel i monawil eobs
humorul imunitetSi?

- \\ \\ T-hel peri
- \\ \\ T-citotoqsikuri
- \\ \\ NK uj redi
- \\ \\ B uj redi

\\ \\ \\ qvemoT CamoTvi il i granul ebidan romel i ar gvxdaba neitrofil is
citoplazmaSi?

- \\ \\ azurofil uri
- \\ \\ spesifikuri
- \\ \\ fosfosomebi
- \\ \\ metaqromaziuli

\\ \\ \\ qvemoT CamoTvi il Tagan romel i asaxavs sworad periferiul sisxi Si
eozofil ebi raodenobrivi Semcvel obas?

- \\ \\ 10%
- \\ \\ 30%
- \\ \\ 2-5%
- \\ \\ 7-10%

\\ \\ \\ qvemoT CamoTvi il Tagan romel i asaxavs sworad periferiul sisxi Si
neitrofil ebi raodenobrivi Semcvel obas?

- \\ \\ 40%
- \\ \\ 30%
- \\ \\ 45-75%
- \\ \\ 7-10%

\\ \\ \\ qvemoT CamoTvi il Tagan romel i asaxavs sworad periferiul sisxi Si
bazofil ebi raodenobrivi Semcvel obas?

- \\ \\ 40%
- \\ \\ 30%
- \\ \\ 0,5-1%
- \\ \\ 6-10%

\\ \\ \\ qvemoT CamoTvi il Tagan romel i asaxavs sworad periferiul sisxi Si
monocitebis raodenobrivi Semcvel obas?

- \\ \\ 50%
- \\ \\ 2-5%
- \\ \\ 6-8 %
- \\ \\ 6-10%

\\ \\ \\ qvemoT CamoTvi il Tagan romel i asaxavs sworad periferiul sisxi Si
limfocitebis raodenobrivi Semcvel obas?

- \\ \\ 50%
- \\ \\ 12-25%

- \\ 20-30 %
- \\\ 6-10%

\\\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis Zvl is tvinis safuZvel s?

- \\ faSari uformo
- \\ mkvriivi formiani
- \\ el astikuri
- \\ retikul uri

\\\ qvemoT CamoTvl il i organoebidan romel i ekuTvnis sisxl mbadi sistemis central ur nawil s?

- \\ Zvl is wiTel i tvini da el enTa
- \\ Timusi da I imfuri kvanZi
- \\ el enTa da I imfuri kvanZi
- \\ Zvl is wiTel i tvini da Timusi

\\\ qvemoT CamoTvl il Tagan romel i ekuTvnis sisxl mbadi sistemis periferiul nawil s?

- \\ Zvl is wiTel i tvini da el enTa
- \\ Timusi da I imfuri kvanZi
- \\ el enTa da I imfuri kvanZi
- \\ Zvl is wiTel i tvini da Timusi

\\\ qvemoT CamoTvl il i kapil arebis tipebidan romel i gvxxvdeba Zvl is wiTel tvinSi?

- \\ somaturi
- \\ viscerul i diafragmiT
- \\ viscerul i diafragmis gareSe
- \\ sinusoiduri

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel s aqvs wil akovani Seneba?

- \\ Zvl is tvini
- \\ el enTa
- \\ Timusi
- \\ I imfuri kvanZi

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml is safuZvel s ar qmnis retikul uri qsovil i?

- \\ Zvl is wiTel i tvini
- \\ Timusi
- \\ el enTa
- \\ I imfuri kvanZi

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan romel s aqvs naxebrad Txieri konsistencia?

- \\ Zvl is wiTel i tvini
- \\ Timusi
- \\ el enTa
- \\ I imfuri kvanZi

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan sad warmoiqmneba T I imfocitebi?

- \\ Zvl is wiTel i tvini
- \\ Timusi
- \\ el enTa

\\ nuSebi

\\\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba I imfur kvanZSi arsebul sivrceebS, romel Sic I imfa miedineba?

\\ ZarRvebi

\\ kapiI arebi

\\ sinusebi

\\ sadinrebi

\\\ qvemoT CamoTvl il i sinusebidan romel i ar gvxxvdeba I imfur kvanZSi?

\\ subkafsul uri

\\ karis

\\ Suamdebare

\\ venuri

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml is parenqimas hqvia pul pa?

\\ Zvl is wiTel i tvini

\\ Timusi

\\ el enTa

\\ nuSebi

\\\ I imfuri kvanZis qvemoT CamoTvl il i ubnebidan romel Si xdeba T I imfocitebis gamravI eba?

\\ I imfuri fol ikul ebi

\\ parakortikul i zona

\\ tvinovani bagirakebi

\\ kafsul a

\\\ el enTis qvemoT CamoTvl il i ubnebidan romel i Seesabameba T zonas?

\\ I imfuri fol ikul ebi

\\ periarteriul i mufta

\\ marginal uri zona

\\ venuri sinusebi

\\\ qvemoT CamoTvl il i organoebidan roml is I imfuri fol ikul i Seicavs central ur arterias?

\\ I imfuri kvanZis

\\ enis nuSis

\\ el enTis

\\ nawl avis

\\\ qvemoT CamoTvl il i sisxl mbadi organoebidan roml ebs axasiaTebS I imfuri fol ikul ebis arseboba?

\\ el enTa da Timusi

\\ Zvl is wiTel i tvini da Timusi

\\ I imfuri kvanZi da Zvl is wiTel i tvini

\\ el enTa da I imfuri kvanZi

\\\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs el enTa?

\\ eriTrocitebis daSI a

\\ I imfocitebis gamravI eba

\\ I imfis gawmenda

\\ damcvel obiTi

\\\ saWml is momnel ebel i arxis romel i garsSi mdebareobs nawl avTan asocierebul i I imfoiduri qsovil i?

\\ I orwovani
\\ \\ I orwqveSa
\\ \\ kunTovani
\\ \\ serozul i

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs el enTis I imfur fol ikul s?

\\ \\ bil roTis Wimebi
\\ \\ el enTis trabekul ebi
\\ \\ mal pigis sxeul aki
\\ \\ wiTel i pul pa

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs el enTis mTI ian I imfur qsovil s?

\\ \\ bil roTis Wimebi
\\ \\ el enTis trabekul ebi
\\ \\ TeTri pul pa
\\ \\ wiTel i pul pa

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs el enTa?

\\ \\ eriTrocitebis daSl a
\\ \\ I imfocitebis warmoqmna
\\ \\ eriTrocitebis warmoqmna
\\ \\ sisxl is deponireba

\\ \\ \\ I imfuri kvanZis qvemoT CamoTvl il i ubnebidan sad mdebareobs I imfuri fol ikul ebi?

\\ \\ tvinovani bagirakebi
\\ \\ gareTa qerqi
\\ \\ SigniTa qerqi
\\ \\ karis sinusi

\\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i gvxxvdeba Timusis wil akis central ur nawil Si?

\\ \\ bil roTis Wimebi
\\ \\ mal pigis sxeul aki
\\ \\ hasal is sxeul aki
\\ \\ hisis kona

\\ \\ \\ saWml is momnel ebel i sistemis qvemoT CamoTvl il i ubnebidan sad mdebareobs peieris fol aqebi?

\\ \\ sayl apavi
\\ \\ kuWi
\\ \\ wvriL i nawl avi
\\ \\ swori nawl avi

\\ \\ \\ qvemoT CamoTvl il i sistemebidan roml isTvis ar aris damaxasiaTebel i difuzuri I imfoiduri qsovil is arseboba?

\\ \\ saWml is momnel ebel i
\\ \\ Sard-sasqeso
\\ \\ central uri nervul i
\\ \\ sasunTqi

\\ \\ \\ el enTis qvemoT CamoTvl il i ubnebidan sad mdebareobs el enTis sinusebi?

\\ \\ mal pigis sxeul aki
\\ \\ TeTri pul pa
\\ \\ wiTel i pul pa

\\ bil roTis Wimebi

\\ \\ qvemoT CamoTvl il Tagan romel i warmoadgens kafsul ian I imfoidur organos?

\\ peieris fol aqebi

\\ TeTri pul pa

\\ I imfuri fol ikul ebi

\\ I imfuri kvanZi

\\ \\ qvemoT CamoTvl il i organoebidan sad mdebareobs hasal is sxeul aki?

\\ Timusis wil akis central ur nawil Si

\\ Timusis wil akis periferiul nawil Si

\\ Zvl is wiTel i tvinis stromaSi

\\ el enTis TeTr pul paSi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS I imfur kvanZs?

\\ periferiul i sisxl mbadi organoa

\\ parenqimul i organoa

\\ retikul uri qsovil iT iqmneba

\\ eriTrociTebis daSI aSi monawil eobs

\\ \\ qvemoT CamoTvl il i organoebida sad mimdinareobs T-I imfocitebis gamravl eba da diferenciacia?

\\ Timusi

\\ Zvl is wiTel i tvini

\\ el enTa

\\ I imfuri kvanZi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS eriTrociTs?

\\ daaxl oebiT 120 dRe cocxl obs

\\ ormxrivCazneqil i forma

\\ hemogl obinis Semcvel oba

\\ didi zomis mrgval i birTvi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS retikul ocits?

\\ gvxdaba mxol od Zvl is tvinSi

\\ gvxdaba mxol od periferiul sisxl Si

\\ I eikocitis winamorbedi uj redia

\\ Seicavs bazofil ur granul ebs

\\ \\ qvemoT CamoTvl il Tagan roml is raodenoba ar mcirdeba eriTrociTis momwi febis procesSi?

\\ uj redis mocul oba

\\ birTvis mocul oba

\\ hemogl obinis raodenoba

\\ ribosomebis raodenoba

\\ \\ mozrdil i organizmis qvemoT CamoTvl il i organoebidan romel Si mimdinareobs eriTrociTebis warmoqmna?

\\ RviZl i

\\ Zvl is wiTel i tvini

\\ el enTa

\\ Timusi

\\ \\ qvemoT CamoTvl il Tagan romel s ar Seicavs Zvl is wiTel i tvini?

\\ retikul uri uj redebi

\\ retikul uri boWkoebi

- \\ epiTel ur-retikul uri uj redebi
- \\ \\ cximovani uj redebi

\\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i ekuTvnis endokrinul i sistemis central ur nawil s?

- \\ hipofizi
- \\ \\ farisebri
- \\ \\ Tirkmel zeda
- \\ \\ farisebraxl o

\\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i ekuTvnis endokrinul i sistemis central ur nawil s?

- \\ epifizi
- \\ \\ farisebri
- \\ \\ Tirkmel zeda
- \\ \\ pankreasi

\\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel i ar ekuTvnis endokrinul i sistemis central ur nawil s?

- \\ farisebri
- \\ \\ adenohipofizi
- \\ \\ epifizi
- \\ \\ neirohipofizi

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar Sedis adenohipofizis Semadgenl obaSi?

- \\ \\ wina wil i
- \\ \\ Suamdebare wil i
- \\ \\ tuberal uri nawil i
- \\ \\ hipofizis fexi

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i ar gamomuSavdeba hipofizSi?

- \\ \\ prol aqtini
- \\ \\ Tireotropul i hormoni
- \\ \\ l uTeotropul i hormoni
- \\ \\ vazopresini

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i ar gamomuSvadeba adenohipofizSi?

- \\ \\ adrenokortikotropul i
- \\ \\ insul ini
- \\ \\ somatotropul i
- \\ \\ fol ikul mastimul irebel i

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba adenohipofizSi?

- \\ \\ paraThormoni
- \\ \\ vazopresini
- \\ \\ oqsitocini
- \\ \\ prol aqtini

\\ \\ \\ qvemoT CamoTvl il i endokrinul i organoebidan roml is funqcias aregul irebs adenohipofizi?

- \\ \\ farisebraxl o jirkval i
- \\ \\ pankreasi
- \\ \\ farisebri jirkval i
- \\ \\ Tirkmel zeda jirkvl is tvinovani nivTiereba

\\ \\ \\ qvemoT CamoTvl il i endokrinul i organoebidan roml is funqcias ar aregul irebs adenohipofizi?

\\ farisebraxl o jirkval i

\\ gonadebi

\\ farisebri jirkval i

\\ Tirkmel zeda jirkvl is qerqovani nivTiereba

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gv xvdeba adenohipofizSi?

\\ bazofil uri adenocitebi

\\ acidofil uri adenocitebi

\\ qromofoburi uj redebi

\\ pituitocitebi

\\ \\ \\ qvemoT CamoTvl il i struqturebidan roml is arseboba ar aris damaxasiaTebel i neirohipofizisaTvis?

\\ umiel ino nervul i boWkoebi

\\ pituitocitebi

\\ heringis sxoul akebi

\\ fol ikul ebi

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba farisebr jirkval Si?

\\ prol aqtini

\\ paraThormoni

\\ Tiroqsini

\\ gl ukagoni

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba farisebr jirkval Si?

\\ somatotropul i

\\ paraThormoni

\\ kal citonini

\\ insul ini

\\ \\ \\ farisebri jirkvl is qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs kal citonins?

\\ fol ikul uri

\\ fibrobl asti

\\ parafol ikul uri

\\ mTavari

\\ \\ \\ farisebri jirkvl is qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs Tiroqsins?

\\ parafol ikul uri

\\ fol ikul uri

\\ mTavari

\\ acidofil uri

\\ \\ \\ endokrinul i uj redebis struqturul i organizaciis qvemoT CamoTvl il i tipebidan romel ia damaxasiaTebel i farisebri jirkvl isTvis?

\\ fol ikul ebi

\\ Wimebi

\\ grovebi

\\ trabekul ebi

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba farisebraxl o jirkval Si?

- \\ Tiroqsini
- \\ kal citonini
- \\ mel atonini
- \\ paraThormoni

\\ \\ farisebraxl o jirkvl is qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs paraThormons?

- \\ mTavari
- \\ acidofil uri
- \\ cximovani
- \\ fibrobl astebi

\\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba epi fizSi?

- \\ adrenal ini
- \\ noradrenal ini
- \\ mel atonini
- \\ Tiroqsini

\\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba Tirkmel zeda jirkvl is tvinovani nivTierebaSi?

- \\ al dosteroni da kortizol i
- \\ adrenal ini da noradrenal ini
- \\ Tiroqsini da kal citonini
- \\ estrogeni da progesteroni

\\ \\ Tirkmel zeda jirkvl is qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba gorgl ovan zonaSi?

- \\ al dosteroni
- \\ kortizol i
- \\ adrenal ini
- \\ noradrenal ini

\\ \\ Tirkmel zeda jirkvl is qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba bagirakovan zonaSi?

- \\ al dosteroni
- \\ kortizol i
- \\ adrenal ini
- \\ noradrenal ini

\\ \\ qvemoT CamoTvl il i jirkvl ebidan romel s aqvs rogorc egzokrinul i ise endokrinul i sekreciis unari?

- \\ farisebri jirkval i
- \\ Timusi
- \\ pankreasi
- \\ farisebraxl o jirkval i

\\ \\ qvemoT CamoTvl il i struqturibidan romel i ar Sedis neirohipofizis Semadgenl obaSi?

- \\ umiel ino nervul i boWkoebi
- \\ gl iuri uj redebi
- \\ miel inuri nervul i boWkoebi
- \\ kapil arebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis endokrinul sistemas?

- \\ hormonebis warmoqmna
- \\ sixl Si sekrecia

- \ \ sadinrebis arseboba
- \ \ \ aral okal uri moqmedeba

\ \ \ qvemoT CamoTvl il i struqtirebidan romel i akavSirebs hipofizs hipoTal amusTan?

- \ \ \ Suamdebare wil i
- \ \ \ tuberal uri nawil i
- \ \ \ hipofizis fexi
- \ \ \ wina nawil i

\ \ \ qvemoT CamoTvl il i dasaxel ebebidan romel i ekuTvnis epifizis uj redebs?

- \ \ \ pituicitebi
- \ \ \ fol ikul uri uj redebi
- \ \ \ parafol ikul uri uj redebi
- \ \ \ pineal ocitebi

\ \ \ qvemoT CamoTvl il i uj redebidan romel i gv xvdeba Tirkmel zeda jirkvl is tvinovan nivTierebaSi?

- \ \ \ mTavari
- \ \ \ acidofil uri
- \ \ \ parafol ikul uri
- \ \ \ qromafinuri

\ \ \ qvemoT CamoTvl il i struqtirebidan romel i qmnis pankreas is egzokrinul nawil s?

- \ \ \ I angerhans is kunZul ebi
- \ \ \ acinusebi
- \ \ \ mil akebi
- \ \ \ fol ikul ebi

\ \ \ qvemoT CamoTvl il i struqtirebidan romel i qmnis pankreas is egzokrinul nawil s?

- \ \ \ I angerhans is kunZul ebi
- \ \ \ acinusebi
- \ \ \ mil akebi
- \ \ \ fol ikul ebi

\ \ \ qvemoT CamoTvl il Tagan romel i mdebareobs Tirkmel zeda jirkvl is kafsul is qveS?

- \ \ \ qromafinocitebi
- \ \ \ gorgl ovani zona
- \ \ \ bagirakovani zona
- \ \ \ badebrivi zona

\ \ \ qvemoT CamoTvl il Tagan romel i mdebareobs Tirkmel zeda jirkvl is qerqovani da tvinovani nivTierebis sazRvarze?

- \ \ \ qromafinocitebi
- \ \ \ gorgl ovani zona
- \ \ \ bagirakovani zona
- \ \ \ badebrivi zona

\ \ \ ramdeni garsia saWml is momnel ebel i mil is kedl is Semadgenl obaSi?

- \ \ \ 2
- \ \ \ 3
- \ \ \ 4
- \ \ \ 5

\\ \\ qvemoT CamoTvl il Tagan romel i aRniSnavs sworad I orwovani garsis firfitebis dasaxel ebas?

- \\ epiTel uri, I orwovani, nervul i
- \\ epiTel uri, sakuTari, kunTovani
- \\ epiTel uri, I orwqveSa, kunTovani
- \\ epiTel uri, j irkvl ovani, marcvl ovani

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis I orwovani garsis sakuTar firfitas?

- \\ faSari uformo
- \\ mkvrivi uformo
- \\ mkvrivi formiani
- \\ retikul uri

\\ \\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis I orwqveSa garss?

- \\ faSari uformo
- \\ mkvrivi uformo
- \\ mkvrivi formiani
- \\ retikul uri

\\ \\ \\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis sayl apavis dasawyis nawil Si kunTovan garss?

- \\ ganivzol iani ConCxis
- \\ ganivzol iani gul is
- \\ gl uvi
- \\ mioepiTel uri

\\ \\ \\ kunTovani qsovil is qvemoT CamoTvl il i tipebidan romel i qmnis sayl apavis bol o nawil Si kunTovan garss?

- \\ ganivzol iani ConCxis
- \\ ganivzol iani gul is
- \\ gl uvi
- \\ mioepiTel uri

\\ \\ \\ saWml is momnel ebel i sistemis qvemoT CamoTvl il i organoebidan romel i ar Seicavs I orwqveSa garss?

- \\ sayl apavi
- \\ ena
- \\ kuWi
- \\ wvri i nawl avi

\\ \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens piris Rrus, xaxas da sayl apavs?

- \\ erTSriani kuburi
- \\ erTSriani brtyel i
- \\ mraval Sriani brtyel i gaurqovanebel i
- \\ mraval Sriani brtyel i garqovanebul i

\\ \\ \\ saWml is momnel ebel i sistemis qvemoT CamoTvl il i organoebidan romel i Seicavs dvril ebs?

- \\ ena
- \\ RrZil i
- \\ sasa
- \\ I oya

\\\\ erTSriani epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens kuWs?

\\\\ brtyel i

\\ cil indrul i jirkvl ovani

\\\\ cil indrul i wamwamovani

\\\\ kuburi

\\\\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens wril nawl avs?

\\\\ erTSriani cil indrul i jirkvl ovani

\\ erTSriani cil indrul i yaeTnovani

\\\\ mraVal Sriani brtyel i garqovanebul i

\\\\ mraVal aSriani gardamaval i

\\\\ qvemoT CamoTvl il i nivTierebebidan romel s gamoimuSavebs fundusis jirkvl ebis mTavari uj redebi?

\\\\ maril mJava

\\\\ l orwo

\\ pepsinogeni

\\\\ l izocimi

\\\\ qvemoT CamoTvl il i nivTierebebidan romel s gamoimuSavebs fundusis jirkvl ebis pariesul i uj redebi?

\\ maril mJava

\\\\ l orwo

\\\\ pepsinogeni

\\\\ l izocimi

\\\\ qvemoT CamoTvl il i nivTierebebidan romel s gamoimuSavebs paneTis uj redi?

\\\\ maril mJava

\\\\ l orwo

\\\\ pepsinogeni

\\ l izocimi

\\\\ wril i nawl avis epiTel uri firfitis qvemoT CamoTvl il i uj redebidan romel i monawil eobs Sewovis procesSi?

\\\\ fial iseBri

\\ yaeTnovani

\\\\ paneTis

\\\\ enteroendokrinul i

\\\\ wril i nawl avis epiTel uri firfitis qvemoT CamoTvl il i uj redebidan romel i gamoyofs l orwos?

\\ fial iseBri

\\\\ yaeTnovani

\\\\ paneTis

\\\\ enteroendokrinul i

\\\\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba pankreas is endokrinul nawil Si?

\\ gl ukagoni

\\\\ adrenal ini

\\\\ Tiroqsini

\\\\ pankreozimini

\\\\ qvemoT CamoTvl il i jirkvl ebidan romel i qmnis pankreas is egzokrinul nawil s?

- \\ martivi mil akovani
- \\ martivi al veol uri
- \\ rTul i al veol uri
- \\ rTul i mil akovani

- \\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs RviZl i?
- \\ pl azmis cil ebis sinTezi
- \\ gl ukoneogenezi
- \\ antisxeul ebis sinTezi
- \\ naRvel is warmoqmna

- \\ \\ qvemoT CamoTvl il i struqturubidan romel i warmoadgens RviZl is struqturul -funqciur erTeul s?
- \\ RviZl is firfita
- \\ portul i triada
- \\ wil aki
- \\ portul i sivrce

- \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs naRvl is pirvel adi kapil arebi?
- \\ portul sivrceebSi
- \\ wil akSor is sivrceSi
- \\ wil akSi, or mezobel hepatocits Soris
- \\ dises sivrceSi

- \\ \\ qvemoT CamoTvl il i kapil arebidan roml is arsebobaa damaxasiaTebel i RviZl isaTvis?
- \\ somaturi
- \\ sinusoiduri
- \\ viscerul i diafragmiT
- \\ viscerul i diafragmis gareSe

- \\ \\ qvemoT CamoTvl il i struqturubidan romel i mdebareobs portul sivrceebSi?
- \\ RviZl is firfitebi
- \\ triadebi
- \\ wil akebi
- \\ sinusoiduri kapil arebi

- \\ \\ qvemoT CamoTvl il i sisxl ZarRvebidan romel i mdebareobs RviZl is kl asikuri wil akis centrSi?
- \\ RviZl is arteria
- \\ sinusoidubi
- \\ central uri vena
- \\ portul i venis toti

- \\ \\ qvemoT CamoTvl il i struqturubidan romel i mdebareobs RviZl is kl asikuri wil akis periferiaze?
- \\ central uri vena
- \\ wil akqveSa vena
- \\ portul i triada
- \\ RviZl is firfita

- \\ \\ pankreas is qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs insul ins?
- \\ al fa uj redebi
- \\ beta uj redebi

- \\ del ta uj redebi
- \\ gama uj redebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i gamoimuSavebs gl ukagons?

- \\ al fa uj redebi
- \\ beta uj redebi
- \\ del ta uj redebi
- \\ gama uj redebi

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba hepatocitebsa da kapil arebs Soris mdebare sivrces?

- \\ houSifis l akuna
- \\ vol kmanis arxi
- \\ dises sivrce
- \\ mal ases bude

\\ \\ qvemoT CamoTvl il i struqturibidan romel i Sedis portul i triadis Semadgenl obaSi?

- \\ central uri da wil akqveSa vena
- \\ RviZl is arteria da naRvl is sadinari
- \\ sinusoidibi, naRvl is pirvel adi kapil ari da central uri vena
- \\ wil akSorisi arteria, wil akSorisi vena da naRvl is sadinari

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs RviZl i?

- \\ bil irubinis warmoqmna
- \\ pl azmis cil ebis warmoqmna
- \\ insul inis sekrecia
- \\ gl ikogenis Senaxva

\\ \\ sayl apavis qvemoT CamoTvl il i ubnebidan romel ia dafarul i serozul i garsiT?

- \\ pirvel i mesamedi
- \\ dasawyisi da Sua mesamedi
- \\ Sua da bol o mesamedi
- \\ mucl is RruSi moqceul i nawil i

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs wvri l i nawl avis epiTel uri uj redebis Semwovi yaeTani?

- \\ sakvebis gadaadgil eba wvri l nawl avSi
- \\ nawl avis zedapiris Sexebis farTobis gazrda
- \\ sekrecia
- \\ imunuri dacva

\\ \\ qvemoT CamoTvl il i struqturibidan romel i monawil eobs Sewovis procesSi?

- \\ fial iseburi uj redebi
- \\ mikroxaebi
- \\ peieris fol aqebi
- \\ panetis uj redebi

\\ \\ qvemoT CamoTvl il i struqturibidan romel i ar gvxdaba dises sivrceSi?

- \\ naRvel i
- \\ retikul uri boWkoebi
- \\ mikroxaebi
- \\ ito uj redebi

\\ \\ qvemoT CamoTvl il i struqturedan romel i ar gvxdaba sayl apavSi?
\\ erTSriani cil indrul i epiTel iumi
\\ ganivzol iani ConCxis kunTovani qsovil i
\\ I orwovani jirkvl ebi I orwqveSa CanafenSi
\\ kardiul i jirkvl ebi sakuTar firfitaSi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis pariesul
uj redebs?
periferiul ad mdebare brtyel i birTvi
\\ acidofil uri citopl azma
\\ uj redSida sadinrebi
\\ didi raodenobiT mitochondriebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis kuWis
fundusis jirkvl ebis mTavar uj redebs?
\\ didi raodenobiT apikal uri granul ebi
\\ acidofil uri citopl azma
\\ kargad ganviTarebul i marcvl ovani endopl azmuri bade
\\ pepsinogenis sekrecia

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs msxvil i nawl avi?
\\ wyl is absorbcia
\\ fekal uri masebis formireba
\\ saWml is momnel ebel i fermentebis sekrecia
\\ I orwos sekrecia

\\ \\ ramdeni garsisgan Sedgeba haergamtari gzebis kedel i?
\\ 1
\\ 2
\\ 3
\\ 4

\\ \\ epiTel iumis qvemoT CamoTvl il i saxeebidan romel i amofens haergamtar
gzebs?
\\ mezoTel iumi
\\ endoTel iumi
\\ jirkvl ovani
\\ respiraciul i

\\ \\ epiTel iumis qvemoT CamoTvl il i saxeebidan romel i amofens haergamtar
gzebs?
\\ erTSriani brtyel i
\\ erTSriani cil indrul i jirkvl ovani
\\ erTSriani cil indrul i yaeTnovani
\\ erTSriani mraval rigiani cil indrul i

\\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs hema-haerovani
barieris SeqmnaSi?
\\ II tipis al veol ociti
\\ I tipis al veol ociti
\\ fial isebri uj redi
\\ kl ara uj redi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoqmni surfaqtants?
\\ fial isebri uj redi
\\ kl ara uj redi

- \\ didi al veol ociti
- \\ \\ bazal uri uj redi

- \\ \\ \\ kapiI arebis qvemoT CamoTvl il i tipebidan romel i gvxxvdeba al veol aTaSorIs ZgideebSi?

- \\ \\ sinusoiduri
- \\ somaturi
- \\ \\ viscerul i diafragmiT
- \\ \\ viscerul i diafragmiS gareSe

- \\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs surfaqtanti?

- \\ \\ amcirebs al veol is zedapirul daWimul obas
- \\ \\ xel s uSI is al veol is kedI is CafuSvas
- \\ \\ monawil eobs hema-haerovani barrieris SeqmnaSi
- \\ zrdis al veol is zedapiris farTobs

- \\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i ar monawil eobs hema-haerovani barrieris SeqmnaSi?

- \\ \\ brtyel i al veol ociti
- \\ didi al veol ociti
- \\ \\ ormagi bazal uri membrana
- \\ \\ endoTel uri uj redi

- \\ \\ \\ qvemoT CamoTvl il i struqturubidan romel i warmoadgens Tirkml is struqturul -funqciur erTeul s?

- \\ \\ qerqovani nivTiereba
- \\ \\ tvinovani nivTiereba
- \\ \\ piramida
- \\ \\ nefroni

- \\ \\ \\ qvemoT CamoTvl il i procesebidan romel i udevs safuZvl ad Sardis warmoqmnaS?

- \\ \\ reabsorbacia, retencia, sekrecia
- \\ \\ fil tracia, reabsorbacia, sekrecia
- \\ \\ fil tracia, eqskrecia, sekrecia
- \\ \\ sekrecia, retencia, absorbacia

- \\ \\ \\ qvemoT CamoTvl il i procesebidan romel i mimdinareobs Tirkml is sxoul akSi?

- \\ \\ reabsorbacia
- \\ \\ retencia
- \\ \\ fil tracia
- \\ \\ sekrecia

- \\ \\ \\ kapiI arebis qvemoT CamoTvl il i tipebidan romel i monawil eobs gorgl is SeqmnaSi?

- \\ \\ somaturi
- \\ \\ fenestrul i diafragmiT
- \\ \\ sinusoiduri
- \\ \\ fenestrul i udiafragmo

- \\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i qmnis boumanis kafsul is SigniTa furcel s?

- \\ \\ nefrociti
- \\ \\ podociti
- \\ \\ mezangiociti
- \\ \\ endoTel iociti

\\\\ qvemoT CamoTvl il Tagan nefronis romel ubanSi mimdinareobs fil tracia?
\\ Tirkml is sxeul aki
\\ proqsimal uri kl aknil i mil aki
\\ henl es maryuJi
\\ distal uri kl aknil i mil aki

\\\\ nefronis romel i nawil is saxecvl il i uj redebi qmnis mkvriv xal s?
\\ distal uri kl aknil i mil aki
\\ momtani arteriol a
\\ gamomtani arteriol a
\\ proqsimal uri kl aknil i mil aki

\\\\ nefronis qvemoT CamoTvl il i nawil ebidan romel i iqmneba podocitebiT?
\\ kafsul is gareTa furcel i
\\ kafsul i SigniTa furcel i
\\ henl es maryuJi
\\ Semkrebi mil akebi

\\\\ kafil arebis qvemoT CamoTvl il i tipebidan romel i qmnis peritubul ur
wnul s nefronSi?
\\ somaturi
\\ viscerul i diafragmiT
\\ viscerul i udiafragmo
\\ sinusoiduri

\\\\ qvemoT CamoTvl il i struqturubidan romel i qmnis fil traciul bariers?
\\ podocitebi
\\ endoTel uri uj redebi
\\ samSriani bazal uri membrana
\\ nefrocitebi

\\\\ qvemoT CamoTvl il i procesebidan romel i mimdinareobs proqsimal ur
kl aknil mil akSi?
\\ fil tracia da reabsorbacia
\\ fil tracia da eqskrecia
\\ reabsorbacia da eqskrecia
\\ reabsorbacia da retencia

\\\\ qvemoT CamoTvl il i procesebidan romel Si monawil eobs henl es maryuJi?
\\ fil tracia
\\ hipertonusul obis gradientis Seqmna
\\ reninis sekrecia
\\ reabsorbacia

\\\\ qvemoT CamoTvl il i procesebidan romel i mimdinareobs distal ur kl aknil
mil akSi?
\\ fil tracia da reabsorbacia
\\ fil tracia da eqskrecia
\\ reabsorbacia da eqskrecia
\\ reabsorbacia da retencia

\\\\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs Tirkml is
endokrinul i aparatis SeqmnaSi?
\\ iuqstagl omerul uri uj redebi
\\ podocitebi
\\ nefrocitebi

\\ endoTel iocitebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i monawil eobs Tirkml is endokrinul i aparatis SeqmnaSi?

\\ podocitebi

\\ yaeTnovani uj redebi

\\ mkvrivi xal is uj redebi

\\ nefrocitebi

\\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba Tirkml is endokrinul aparatSi?

\\ vazopresini

\\ al dosteroni

\\ renini

\\ medul ipini

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i amofens Sardis gamomtan gzebs?

\\ mraVal Sriani gardamaval i

\\ mraVal Sriani brtyel i garqovanebul i

\\ erTSriani brtyel i

\\ erTSriani cil indrul i

\\ \\ ramdeni garsisgan Sedgeba Sardis buStis kedel i?

\\ 2

\\ 3

\\ 4

\\ 5

\\ \\ qvemoT CamoTvl il i garsebidan romel i ar Sedis Sardis buStis kedl is Semadgenl obaSi?

\\ I orwovani

\\ I orwqveSa

\\ kunTovani

\\ SemaerTqsovil ovani

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs kani?

\\ damcvel obiTi

\\ receptorul i

\\ sayrdeni

\\ Termoregul acia

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis epidermiss?

\\ epiTel uri

\\ SemaerTebel i

\\ kunTovani

\\ nervul i

\\ \\ kanis qvemoT CamoTvl il i nawil ebidan romel is sisqe gansazRvravs sqel i da Txel i kanis arsebobas?

\\ epidermisi

\\ dvriil ovani Sre

\\ badebrivi Sre

\\ cximovani uj redisi

\\ \\ qvemoT CamoTvl il i Sreebidan romel i ar ekuTvnis dermas?

\\ epidermisi

- \\ dvril ovani Sre
- \\ badebrivi Sre
- \\ cximovani uj redisi

- \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis dermis dvril ovan Sres?
- \\ epiTel uri
- \\ faSari SemaerTebel i
- \\ mkvrivi uformo SemaerTebel i
- \\ cximovani

- \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis dermis badebriv Sres?
- \\ epiTel uri
- \\ faSari SemaerTebel i
- \\ mkvrivi uformo SemaerTebel i
- \\ cximovani

- \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar mdebareobs epidermisSi?
- \\ keratinocitebi
- \\ mel anocitebi
- \\ I angerhansis uj redebi
- \\ adipocitebi

- \\ \\ kanis qvemoT CamoTvl il i uj redebidan romelia yvel aze mraval ricxovani?
- \\ keratinocitebi
- \\ mel anocitebi
- \\ merkel is
- \\ I angerhansis

- \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs keratinocitebi?
- \\ keratinis sinTezi
- \\ pigmentis sinTezi
- \\ fagocitozi
- \\ receptorul i

- \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs I angerhansis uj redebi?
- \\ imunur reaqciebSi monawil eoba
- \\ sayrdeni
- \\ pigmentis sinTezi
- \\ receptorul i

- \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs merkel is uj redebi?
- \\ sayrdeni
- \\ meqanoreceptorebis
- \\ damcvel obiTi
- \\ sekreciul i

- \\ \\ qvemoT CamoTvl il i romel i SemaerTqsovil ovani Sre mdebareobs uSual od epidermisis qveS?
- \\ sakuTari firfita
- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

- \\ \\ kanis qvemoT CamoTvl il i Sreebidan romel i iqmneba mkvrivi boWkovani SemaerTebel i qsovil iT?
- \\ epidermisi

- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

\\ \\ kanis qvemoT CamoTvl il i Sreebidan romel i iqmneba faSari SemaerTebel i qsovil iT?

- \\ epidermisi
- \\ dvril ovani
- \\ badebrivi
- \\ hipoderma

\\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs l eidigis uj redebi?

- \\ fagocitozi
- \\ antimiul erul i hormonis warmoqmna
- \\ testosteronis sekrecia
- \\ trofikul i

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i xasiaTebis sertol is uj redebs?

- \\ spermatogenuri epiTel iumis regeneracia
- \\ androgenebis sinTezi
- \\ anrimiul erul i hormonis sekrecia
- \\ meiozuri gayofa

\\ \\ qvemoT CamoTvl il i funqciebidan romel i ar axasiaTebis sertol is uj reds?

- \\ sayrdeni
- \\ spermatogenuri epiTel iumis regeneracia
- \\ fagocitozi
- \\ sekrecia

\\ \\ qvemoT CamoTvl il i garsebidan romel is arseboba ar aris damaxasiaTebel i saSvil osnosaTvis?

- \\ l orwovani
- \\ l orwqveSa
- \\ kunTovani
- \\ serozul i

\\ \\ spermatozoidis qvemoT CamoTvl il i nawil ebidan romel i uzrunvel yofs uSual od misi moZraobis unars?

- \\ Tavi
- \\ yel i
- \\ sxeul i
- \\ kudi

\\ \\ qvemoT CamoTvl il i j irkvl ebidan romel s ekuTvnis winamdebare j irkval i?

- \\ martivi mil akovani
- \\ rTul i al veol ur-mil akovani
- \\ rTul i al veol uri
- \\ martivi al veol ur-mil akovani

\\ \\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel is mwife fol ikul i?

- \\ primordiul i
- \\ pirvel adi
- \\ mzardi
- \\ graafis

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel i gamomuSavdeba sakvercxesi?
\\ \\ \\ kortizoni da kortizol i
\\ \\ \\ testosteroni da estrogeni
\\ \\ \\ estrogeni da progesteroni
\\ \\ \\ al dosteroni da kortizol i

\\ \\ \\ qvemoT CamoTvl il i hormonebidan romel s gamoimuSavebs yviTel i sxeul i?
\\ \\ \\ estrogeni
\\ \\ \\ antimiuleris
\\ \\ \\ progesteroni
\\ \\ \\ testosteroni

\\ \\ \\ qvemoT CamoTvl il Tagan romel i qmnis perimetriums umetes adgil as?
\\ \\ \\ adventiciuri garsi
\\ \\ \\ sakuTari firfita
\\ \\ \\ serozul i garsi
\\ \\ \\ el astikuri membrana

\\ \\ \\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel i aZl evs dasabams yviTel sxeul s?
\\ \\ \\ atreziul i
\\ \\ \\ mwife
\\ \\ \\ pirvel adi
\\ \\ \\ meoradi

\\ \\ \\ sakvercxis fol ikul ebis qvemoT CamoTvl il i saxeebidan romel i Seesabameba fol ikul s, romel ic ganicdis ukuganviTarebas?
\\ \\ \\ mwife
\\ \\ \\ ovul aciuri
\\ \\ \\ atreziul i
\\ \\ \\ graafis

\\ \\ \\ qvemoT CamoTvl il i receptorebidan romel i ekuTvnis qemoreceptorebs?
\\ \\ \\ myesis goljis organo
\\ \\ \\ kunTis TiTistara
\\ \\ \\ gemovnebis
\\ \\ \\ mxedvel obis

\\ \\ \\ qvemoT CamoTvl il i nervul i dabol oebebidan romel s ekuTvnis ynosvis organo?
\\ \\ \\ fotoreceptori
\\ \\ \\ qemoreceptori
\\ \\ \\ proprioreceptori
\\ \\ \\ meqanoreceptori

\\ \\ \\ qvemoT CamoTvl il i gaRizianebebidan romel s ar aRiqvams Tavisufal i nervul i dabol oebebi?
\\ \\ \\ sitbo
\\ \\ \\ sicive
\\ \\ \\ tkivil i
\\ \\ \\ gemo

\\ \\ \\ qvemoT CamoTvl il i receptorebidan romel i ekuTvnis proprioreceptorebs?
\\ \\ \\ paCinis sxeul akebi
\\ \\ \\ kunTis TiTistara

- \\ \\ mxedvel obis
- \\ \\ ynosvis

\\ \\ \\ qvemoT CamoTvl il i dvriil ebidan sad mdebareobs gemovnebis receptorebi?

- \\ \\ Zafisebri da foTI iseбри
- \\ \\ sokosebri da SemozRudul i
- \\ \\ Zafisebri da SemozRudul i
- \\ \\ Zafisebri da sokosebri

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs smenisa da wonasworobis organo?

- \\ \\ yuris niJara
- \\ \\ gareTa yuri
- \\ \\ Sua yuri
- \\ \\ SigniTa yuri

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs kortis organo

- \\ \\ tiki
- \\ \\ parkuWi
- \\ \\ naxevarrkal ovani arxebi
- \\ \\ I okokinas arxi

\\ \\ \\ Tval is qvemoT CamoTvl il i garsebidan romel Si mdebareobs fotoreceptorebi?

- \\ \\ rqovana
- \\ \\ badura
- \\ \\ skl era
- \\ \\ sisxl ZarRvovani

\\ \\ \\ baduras qvemoT CamoTvl il i Sreebidan romel i aRiqvams uSual od sinaTI es?

- \\ \\ Cxirebis da kol bebis
- \\ \\ gangl iuri
- \\ \\ gareTa marcvl ovani
- \\ \\ SigniTa marcvl ovani

\\ \\ \\ baduras qvemoT CamoTvl il i Sreebidan romel Si mdebareobs neironebi, roml ebic mxedvel obis nervs qmnis?

- \\ \\ gareTa marcvl ovani
- \\ \\ SigniTa marcvl ovani
- \\ \\ gareTa badebrivi
- \\ \\ gangl iuri

\\ \\ \\ baduras qvemoT CamoTvl il i Sreebidan romel Si ukavSirdeba fotoreceptorebis aqsonebi Suamdebare Sris bipol arul i neironebis dendritebs?

- \\ \\ gareTa marcvl ovani
- \\ \\ SigniTa marcvl ovani
- \\ \\ gareTa badebrivi
- \\ \\ SigniTa badebrivi

\\ \\ \\ baduras qvemoT CamoTvl il i Sreebidan romel Si ukavSirdeba Suamdebare Sris bipol arul i neironebis aqsonebi gangl iuri Sris neironebis dendritebs?

- \\ \\ gareTa marcvl ovani
- \\ \\ SigniTa marcvl ovani
- \\ \\ gareTa badebrivi

\\ SigniTa badebrivi

\\\ baduras qvemoT CamoTvl il i uj redebidan romel i qmnis SigniTa marcvl ovan Sres?

\\\ fotoreceptorebi

\\ bipolarul i neironebi

\\\ gangliuri neironebi

\\\ amakrinuli uj redebi

\\\ embrionuli ganvitarebis qvemoT CamoTvl il i vadebidan romel ze iwyeba kbil is ganvitareba?

\\\ II kvira

\\ VI kvira

\\\ IV Tve

\\\ X kvira

\\\ qvemoT CamoTvl il i struqturebidan romel is formis cvl il eba ganapirobebs kbil is ganvitarebis stadiemis dasaxel ebas?

\\\ kbil is dvrili

\\\ kbil is parki

\\\ mezenqima

\\ kbil is firfita

\\\ qvemoT CamoTvl il i struqturebidan romel s warmoqmnis minanqris organos qvemoT mdebare eqtomezenqimis gamkvrivebuli ubani?

\\ kbil is dvrili

\\\ kbil is CanTa

\\\ minanqris organos pulpa

\\\ minanqris Wimi

\\\ qvemoT CamoTvl il i Tagan romel i Seesabameba eqtomezenqimis gamkvrivebuli ubans, romel ic gars akravs minanqris organos?

\\\ kbil is dvrili

\\ kbil is CanTa

\\\ minanqris prizma

\\\ minanqris Wimi

\\\ qvemoT CamoTvl il i struqturebidan romel s aZl evs dasabams kbil is dvrili?

\\\ ameloblastebs da minanqars

\\\ pulpas da duRabs

\\ pulpas da dentins

\\\ duRabs da periodontis iogs

\\\ qvemoT CamoTvl il i struqturebidan romel s aZl evs dasabams kbil is CanTa?

\\\ ameloblastebsa da minanqars

\\\ pulpas da odontoblastebs

\\\ pulpas da dentins

\\ duRabs da periodontis iogs

\\\ qvemoT CamoTvl il i formebidan romel i axasiaTebis minanqris organos SigniTa uj redebs qudakis stadiaze?

\\ marali cilindruli

\\\ kuburi

\\\ brtyeli

\\\ poligonuri

\\ \\ qvemoT CamoTvl il i formevidan romel i axasiaTebS minanqris organos
gareTa uj redebs qudakis stadiaze?

- \\ maRal i prizmul i
- \\ kuburi
- \\ brtyel i
- \\ pol igonuri

\\ \\ minanqris organos qvemoT CamoTvl il i nawil ebidan romel i uqmnis sayrdens
minanqris organos uj redebs?

- \\ Suamdebare Sre
- \\ minanqris retikul umi
- \\ SigniTa uj redebi
- \\ gareTa uj redebi

\\ \\ qvemoT CamoTvl il i dasaxel ebevidan romel i ixmarebs minanqris organos
pul pis aRsani Snavad?

- \\ Suamdebare Sre
- \\ minanqris retikul umi
- \\ SigniTa epiTel iumi
- \\ gareTa epiTel iumi

\\ \\ kbil is ganviTarebis proceSi dentinis warmoqmna iwyeba:

- \\ minanqris warmoqmnamde
- \\ minanqris warmoqmnis Semdeg
- \\ minanqris warmoqmnasTan erTad
- \\ minanqris warmoqmnasTan kavSiris gareSe

\\ \\ qvemoT CamoTvl il i uj redevidan romel i qmnis kbil is dvril s?

- \\ odontobl astebi
- \\ eqtomezenqimuri uj redebi
- \\ fibrobl astebi
- \\ dvril ovani uj redebi

\\ \\ qvemoT CamoTvl il i struqturevidan romel i aZl evs dasabams kbil is
pul pas?

- \\ minanqris organo
- \\ kbil is dvril i
- \\ kbil is firfita
- \\ kbil is CanTa

\\ \\ qvemoT CamoTvl il i funqcievidan romel s ar asrul ebs kbil is dvril i?

- \\ minanqris warmoqmnis iniciacia
- \\ dentinis warmoqmna
- \\ duRabis warmoqmna
- \\ pul pis warmoqmna

\\ \\ qvemoT CamoTvl il i struqturevidan roml is uj redebi qmnis duRabs?

- \\ kbil is dvril i
- \\ kbil is fol ikul i
- \\ kbil is CanTa
- \\ hertvigis fesvis bude

\\ \\ qvemoT CamoTvl il i struqturevidan roml is uj redebi diferencirdeba
cementobl astebad?

- \\ hertvigis fesvis bude
- \\ kbil is dvril is mezenqimocitebi
- \\ kbil is CanTis mezenqimocitebi

\\ nervul i qedis uj redebi

\\ \\ qvemoT CamoTvl il i struqturedan roml is ganviTarebis Semdeg warmoiqmneba duRabi?

\\ \\ gvirgvinis dentinis

\\ \\ minanqris

\\ \\ pul pis

\\ \\ fesvis dentinis

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar viTardeba kbil is fol ikul idan?

\\ \\ cementobl astebi

\\ \\ fibrobl astebi

\\ \\ osteobl astebi

\\ \\ odontobl astebi

\\ \\ qvemoT CamoTvl il i vadebidan rodixdeba mudmivi kbil is Canasaxis warmoqmna?

\\ \\ embrionul i ganviTarebis me-3 kviras

\\ \\ dabadebis momentisTvis

\\ \\ mosacvl el i kbil is amoWris Semdeg

\\ \\ embrionul i ganviTarebis me-5-e Tveze

\\ \\ SearCieT kbil is ganviTarebis dros mimdinare procesebis swori Tanmimdevroba.

\\ \\ odontobl astebis diferenciacia - minanqris warmoqmna - dentinis warmoqmna

\\ \\ odontobl astebis diferenciacia - dentinis warmoqmna - minanqris warmoqmna

\\ \\ dentinis warmoqmna - odontobl astebis diferenciacia - minanqris warmoqmna

\\ \\ minanqris warmoqmna - odontobl astebis diferenciacia - dentinis warmoqmna

\\ \\ qvemoT CamoTvl il i Sreebidan romel i ar Sedis minanqris organos Semadgenl obaSi?

\\ \\ gareTa epiTel iumi

\\ \\ SigniTa epiTel iumi

\\ \\ marcvl ovani Sre

\\ \\ Suamdebare Sre

\\ \\ qvemoT CamoTvl il i struqturedan roml ebis SerwymiT warmoiqmneba hertvigis epiTel uri bude?

\\ \\ SigniTa epiTel iumi da Suamdebare Sre

\\ \\ SigniTa da gareTa epiTel iumi

\\ \\ gareTa epiTel iumi da minanqris organos retikul umi

\\ \\ gareTa epiTel iumi da Suamdebare Sre

\\ \\ qvemoT CamoTvl il i struqturedan romel i warmoadgens hertvigis epiTel uri budis narCens?

\\ \\ fesvis damatebiTi arxebi

\\ \\ mal ases epiTel uri narCenebi

\\ \\ minanqar-dentinis kavSiri

\\ \\ minanqar-duRabis kavSiri

\\ \\ qvemoT CamoTvl il i uj redebidan romel s aZl evs dasabams minanqris organos SigniTa uj redebi?

\\ \\ amel obl astebi

\\ \\ cementobl astebi

\\ \\ osteokl astebi

\\ \\ pul pis mcirediferencirebul i uj redebi

\\ \\ kbiL is qvemoT CamoTvl il i qsovil ebidan romel i diferencirdeba pirvel ad ganviTarebis procesSi?

\\ \\ minanqari

\\ \\ duRabi

\\ \\ pul pa

\\ \\ dentini

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebS amel obl astebs?

\\ \\ maRal i prizmul i forma

\\ \\ bazal ur membranaze mdebareoba

\\ \\ mezenqimuri warmoSoba

\\ \\ mkveTrad gamoxatul i pol arizacia

\\ \\ qvemoT CamoTvl il i procesebidan romel s asaxavs minanqris retciusis xazebi?

\\ \\ organul i matriqsis Cal agebis intensivobas

\\ \\ minanqris mineral izaciis intensivobas

\\ \\ minanqris zrdas

\\ \\ minanqris cveTas

\\ \\ qvemoT CamoTvl il Tagan sad aris yvel aze kargad gamoxatul i retciusis xazebi?

\\ \\ mosacvl el kbiL ebSi

\\ \\ ZiriTad kbiL ebSi

\\ \\ minanqris organoSi

\\ \\ kbiL is firfitaSi

\\ \\ minanqris organos qvemoT CamoTvl il i nawil ebidan romel i ainducirebs dentinis ganviTarebas?

\\ \\ minanqris gareTa epiTel iumi

\\ \\ minanqris SigniTa epiTel iumi

\\ \\ Suamdebare Sre

\\ \\ minanqris retikul umi

\\ \\ minanqris organos qvemoT CamoTvl il i komponentebidan romel i qreba minanqris warmoqmnis procesSi?

\\ \\ minanqris SigniTa epiTel iumi

\\ \\ minanqris gareTa epiTel iumi

\\ \\ Suamdebare Sre

\\ \\ minanqris retikul umi

\\ \\ kbiL is ganviTarebis romel stadiaze diferencirdeba amel obl astebi minanqris organos SigniTa epiTel iumisagan?

\\ \\ kbiL is firfita

\\ \\ qudakis

\\ \\ adreul i zaris

\\ \\ amoWris dros

\\ \\ kbiL is qvemoT CamoTvl il i nawil ebidan romel i faravs gviringvis garedan?

\\ \\ minanqari

\\ \\ dentini

\\ \\ duRabi

\\ \\ pul pa

\\\\ kbil is qvemoT CamoTvl il i nawil ebidan roml isTvis aris damaxasiaTebel i retciusis xazebis arseboba?

- \\\\ dentini
- \\ minanqari
- \\\\ duRabi
- \\\\ pul pa

\\\\ qvemoT CamoTvl il Tagan romel i xasiaTdeba mineral izaciis yvel aze maRal i xarisxiT organizmSi?

- \\\\ dentini
- \\\\ duRabi
- \\ minanqari
- \\\\ kompakturi Zval i

\\\\ qvemoT CamoTvl il Tagan romel i asaxavs minanqarSi araorganul i komponentis Semcvel obis procentis?

- \\\\ 90%
- \\ 96%
- \\\\ 94%
- \\\\ 99%

\\\\ qvemoT CamoTvl il Tagan roml isTvis ar aris, Cveul ebriv, damaxasiaTebel i hidroqsiapatitis marcvl ebis arseboba?

- \\\\ minanqari
- \\\\ Zval i
- \\ xrtil i
- \\\\ duRabi

\\\\ qvemoT CamoTvl il Tagan romel i ar ekuTvnis minanqaris organul komponents?

- \\\\ enamel ini
- \\\\ amel ogenini
- \\\\ amel ini
- \\ kal ciumis fosfati

\\\\ qvemoT CamoTvl il Tagan romel i ar ganicdis ganaxl ebas organizmSi?

- \\ minanqari
- \\\\ pul pa
- \\\\ Zval i
- \\\\ dentini

\\\\ qvemoT CamoTvl il i struqtirebidan romel i ar warmoadgens minanqaris komponents?

- \\\\ prizmebi
- \\ mil akebi
- \\\\ TiTistarebi
- \\\\ prizmaTaSorisi nivTiereba

\\\\ kbil is qvemoT CamoTvl il i nawil ebidan romel i gamoirCeva gansakuTrebul i simtkiciT?

- \\ minanqari
- \\\\ dentini
- \\\\ duRabi
- \\\\ pul pa

\\\\ qvemoT CamoTvl il i struqtirebidan romel i warmoadgens minanqaris struqturul -funqciur erTeul s?

- \\ prizmebi

- \\ pirami debi
- \\ konebi
- \\ mil akebi

\\ \\ \\ qvemoT CamoTvl il Tagan romel s ganapirobebs minanqris prizmebis S-is magvari forma?

- \\ xel s uSl is ReWvis dros minanqarSi radial uri naxeTqebis warmoqmnas
- \\ aZl ierebs minanqris mineral izaciis xarisxs
- \\ aadvil ebs minanqris dakavSirebas dentinTan.
- \\ aadvil ebs siTxis moZraobas minanqrSi

\\ \\ \\ minanqris prizmis qvemoT CamoTvl il i ubnebidan romel i xasiaTdeba mineral uri nivTiererebis yvel aze dabal i Semcvel obiT?

- \\ prizmis garsi
- \\ central uri ubani
- \\ naTel i ubani
- \\ muqi ubani

\\ \\ \\ qvemoT CamoTvl il Tagan roml iT aris ganpirobetul i minanqris prizmebis ganivi daxazul oba?

- \\ minanqris warmoqmnis dRe-Ramuri periodul obiT
- \\ mineral izaciis dabal i xarisxiT
- \\ organul i matriqsis maRal i Semcvel obiT
- \\ gakirul i da gaukiravi ubnebis monacvl eobiT

\\ \\ \\ qvemoT CamoTvl il Tagan romel Sia yvel aze kargad gamoxatul i retciusis xazebi?

- \\ mosacvl el kbiI ebSi
- \\ mudmiv kbiI ebSi
- \\ minanqris organoSi
- \\ kbiI is CanTaSi

\\ \\ \\ qvemoT CamoTvl il Tagan romel is Semcvel obaa ufro maRal i minanqris pirzmis garsSi prizmasTan Sedarebit?

- \\ organul i nivTiererebis
- \\ araorganul i nivTiererebis
- \\ wyl is
- \\ retciusis xazebis

\\ \\ \\ qvemoT CamoTvl il i struqturibidan roml is warmoqmnas ganapirobebs minanqris prizmebis ganl agebis Tavisebureba?

- \\ uprizmo minanqari
- \\ retciusis xazebi
- \\ giunter-Sregeris zol ebi
- \\ minanqris TiTistarebi

\\ \\ \\ qvemoT CamoTvl il i struqturibidan romel i aZl evs dasabams kutikul as?

- \\ minanqris organos gareTa epiTel iumi
- \\ minanqris organos SigniTa epiTel iumi
- \\ odontobl astebi
- \\ kbiI is parkis mezenqimocitebi

\\ \\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba naz membranas romel ic axl ad amoWril i kbiI is gvirgvins faravs garedan?

- \\ periqimata
- \\ hertvigis fesvis epiTel uri bude
- \\ pirvel adi kutikul a

\\ pl azmal ema

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRniSnavs odontobl astis morCs?

\\ korfis boWko

\\ tomesis boWko

\\ Sarpeis boWko

\\ ebneris boWko

\\ \\ qvemoT CamoTvl il i niSnebidan romel i ar axasiaTebis amel obl astebs?

\\ maRal i prizmul i forma

\\ bazal ur membranaze mdebareoba

\\ mezenqimuri warmoSoba

\\ mkveTrad gamoxatul i pol aroba

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba minanqris prizmis ganapi ra ubnis aRsani Snavad?

\\ retciusis xazebi

\\ Sregeris zol ebi

\\ prizmis garsi

\\ uprizmo minanqari

\\ \\ qvemoT CamoTvl il i struqturebidan romel i gamoyofs minanqris prizmebs erTmaneTisagan?

\\ minanqris zol ebi

\\ minanqris xazebi

\\ prizmaTaSorisi nivTiereba

\\ uprizmo minanqari

\\ \\ minanqris qvemoT CamoTvl il i struqturebian romel i ar ekuTvnis hipominer al izebul ubans?

\\ minanqris prizmebi

\\ minanqris firfitebi

\\ minanqris TiTistarebi

\\ minanqris konebi

\\ \\ qvemoT CamoTvl il Tagan romel i asaxavs sworad minanqarSi organul i da araorganul i nivTierebebis Semcvel obas?

\\ 10% organul i nivTierebebi, 70% mineral uri maril ebi, 20% wyal i

\\ 1% organul i nivTierebebi, 96% mineral uri maril ebi, 3% wyal i

\\ 75% organul i nivTierebebi, 20% mineral uri maril ebi, 5% wyal i

\\ 50% organul i nivTierebebi, 40% mineral uri maril ebi, 10% wyal i

\\ \\ kbil is qvemoT CamoTvl il i ubnebidan sad mdebareobs odontobl astebi?

\\ minanqrisa da dentinis sazRvarze

\\ dentinis mil akebSi

\\ pul paSi

\\ duRabSi

\\ \\ kbil is qvemoT CamoTvl il i ubnebidan sad mdebareobs dentini?

\\ gviringvini, fesvi da kbil is Rru

\\ fesvi da yel i

\\ gviringvini, fesvi da yel i

\\ gviringvini da yel i

\\ \\ SemaerTebel i qsovil is qvemoT CamoTvl il i tipebidan roml is nairsaxeobas warmoadgens dentini?

- \\l tI anqboWkovani Zval i
- \\l firfitovani Zval i
- \\l kol agenurboWkovani xrtil i
- \\l mkvrivi SemaerTebel i qsovil i

- \\l\\l dentinis qvemoT CamoTvl il i saxeebidan romel i Seicavs ebneris boWkoebs?
- \\l pul pisaxl o dentini
- \\l mantiisebri dentini
- \\l peritubul uri dentini
- \\l predentini

- \\l\\l dentinis qvemoT CamoTvl il i saxeebidan romel i Seicavs korfis boWkoebs?
- \\l pul pisaxl o dentini
- \\l intergl obul uri dentini
- \\l predentini
- \\l mantiisebri dentini

- \\l\\l qvemoT CamoTvl il i struqutrebidan romel i ar gv xvdeba odontobl astebis morCebSi?
- \\l endopl azmuri badis erTeul i cisternebi
- \\l mcire raodenobiT ribosomebi da mitoqondriebi
- \\l gol j is aparatis cisternebi
- \\l mikromil akebi

- \\l\\l qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis intergl obul ur dentins?
- \\l kbil is hipomineral izebul ubnebs ganekuTvneba
- \\l misi warmoqmna mineral uri nivTierEBis gl obul ebiS arasrul yofil i SerwymiT aris ganpirobebul i
- \\l misi arseboba dentinis warmoqmnis normal uri mimdinareobis maCveneBel ia
- \\l Sreobrivad aris ganl agebul i kbil is gvirgvinis gareTa nawil Si

- \\l\\l qvemoT CamoTvl il Tagan romel i ar ekuTvnis dentinis hipomineral izebul ubnebs?
- \\l intergl obul uri dentini
- \\l predentini
- \\l tomsis marcvl ovani Sre
- \\l peritubul uri dentini

- \\l\\l dentinis qvemoT CamoTvl il i saxeebidan romel i qmnis dentinis mil akebis kedel s?
- \\l peritubul uri dentini
- \\l intertubul uri dentini
- \\l predentini
- \\l intergl obul uri dentini

- \\l\\l qvemoT CamoTvl il i procesebidan romel i ganapirobebs gamWvirval e dentinis warmoqmnas?
- \\l meoradi dentinis warmoqmna
- \\l peritubul uri dentinis mcire raodenobiT warmoqmna
- \\l dentinis mil akebis mineral uri nivTierEBiT amovseba
- \\l peritubul uri dentinis mineral izaciis xarisxis Semcireba

- \\l\\l kbil is qvemoT CamoTvl il i ubnebidan roml iTvis aris damaxasiaTebel i intergl obul uri dentinis arseboba?
- \\l gvirgvini
- \\l yel is

\\ fesvis
\\ pul pis Rru

\\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs predentini?
\\ dentinisa da poul pis sazRvarze
\\ mantiur da pul pisaxl o dentins Soris
\\ intergl obul ur sivrceebSi
\\ dentinis mil akebs Soris

\\ \\ qvemoT CamoTvl il i structurebidan romel i amofens Signidan dentinis mil akebs?
\\ nesmitis garsi
\\ endosteumi
\\ neimanis membrana
\\ predentini

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i warmoadgens neimanis garsis meore dasaxel ebas?
\\ nesmitis garsi
\\ dentinis firfita
\\ sazRvrovani firfita
\\ hertvigis bude

\\ \\ dentinis qvemoT CamoTvl il i saxeebidan romel i warmoiqmneba gamaRizianebel i faqtorebis moqmedebis sapasuxod?
\\ pirvel adi dentini
\\ skl erozul i dentini
\\ meoradi dentini
\\ mesameul i dentini

\\ \\ dentinis qvemoT CamoTvl il i saxeebidan romel i ar ekuTvnis dentinis hipomineral izebul ubnebs?
\\ intergl obul uri dentini
\\ tomsis marcvl ovani Sre
\\ peritubul uri dentini
\\ predentini

\\ \\ kbil is qvemoT CamoTvl il i ubnebidan sad gv xvdeba tomsis marcvl ovani Sre?
\\ gvirgvini
\\ yel is
\\ fesvis
\\ pul pis Rru

\\ \\ qvemoT CamoTvl il i procesebidan romel i ganapirobebs intergl obul uri dentinis warmoqmnas?
\\ mineral izaciis procesis darRveva
\\ organul i matriqsis Warbi sekrecia
\\ dabereba
\\ kol agenuri boWkoebis daSl a

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis dentinis mil akebs?
\\ Seicavs odontobl astebis morCebs
\\ kariesis SemTxvevaSi mikroorganizmebis gavr cel ebis gzas warmoadgens
\\ pul pidan minanqar-dentinis sazRvris mimarTul ebiT mil akebis diametri farTovdeba

\\ uzrunvel yofs dentinis kvebas

\\\ qvemoT CamoTvl il i struqturebidan romel i ar gvxdvdeba dentinis mil akebsi?

\\ odontobl astebis morcebi

\\ kapil arebi

\\ dentinis siTxe

\\ umiel ino nervul i boWkoebi

\\\ qvemoT CamoTvl il i struqturebidan romel i ar gvxdvdeba dentinis mil akebsi?

\\ odontobl astebis morcebi

\\ umiel ino nervul i boWkoebi

\\ miel inuri boWkoebi

\\ dentinis siTxe

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis pirvel ad dentins?

\\ kbil is formirebis procesSi warmoiqmneba

\\ dentinis ZiriTad nawil s qmnis

\\ Seicavs zrdis xazebs

\\ Seicavs odontobl astebs

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis pirvel ad dentins?

\\ dabal i mineral izaciis xarisxi

\\ uj reebis Semcvel oba

\\ boWkoebisa da mil akebis uwesrigo ganl ageba

\\ zrdis xazebis arseboba

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis meorad dentins?

\\ uj reebis ararseboba

\\ boWkoebisa da mil akebis uwesrigo ganl ageba

\\ kbil is amowris Semdgom warmoqmna

\\ Tanabarzomieri warmoqmna

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis meorad dentins?

\\ warmoiqmneba embrionul periodSi

\\ boWkoebisa da mil akebis mowesrigebul i ganl ageba

\\ mineral izaciis dabal i xarisxi

\\ araTabarzomieri warmoqmna

\\\ qvemoT CamoTvl il i Taviseburebebidan romel i ganasxvavebs pirvel ad dentins meoradisagan?

\\ uj reebis arseboba

\\ mil akebis arseboba

\\ mineral izaciis xarisxi

\\ sixl ZarRvebis arseboba

\\\ qvemoT CamoTvl il i Taviseburebebidan romel ia saerTo pirvel adi da meoradi dentinisaTvis?

\\ mineral izaciis xarisxi

\\ boWkoebisa da mil akebis mowesrugebul i ganl ageba

\\ warmoqmnis droSi Tanxvedra

\\ uj reebis ararseboba

\\ \\ dentinis qvemoT CamoTvl il i saxeebidan roml is dagroveba iwvevs daberebis procesSi pul pis Rrus zomaSi Semcirebas?

\\ \\ pirvel adi dentini

\\ \\ meoradi dentini

\\ \\ mesameul i dentini

\\ \\ reparaciul i dentini

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS predentins?

\\ \\ dentinis gaukiravi ubania

\\ \\ odontobl astebis mimdebare ubanSi mdebareobs

\\ \\ odontobl astebis morCebs Seicavs

\\ \\ Seicavs sisxl ZarRvebs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS intrerql obul ur dentins?

\\ \\ mineral izaciis dabal i xarisxi

\\ \\ fesvis dentinSi mdebareoba

\\ \\ dentinis mil akebis maRal i Semcvel oba

\\ \\ sisxl ZarRvebisa da nervebis Semcvel oba

\\ \\ dentinis qvemoT CamoTvl il i hipomineral izebul i (an gaukiravi) ubnebidan romel i mdebareobs kbil is gvirgvinis gareTa nawil Si?

\\ \\ interql obul uri dentini

\\ \\ tomsis marcvl ovani Sre

\\ \\ predentini

\\ \\ mesameul i dentini

\\ \\ qvemoT CamoTvl il i Tagan romel i asaxavs sworad dentinSi organul i da ararorganul i nivTierebebis Semcvel obas?

\\ \\ 50% organul i, 40% araorganul i, 10% wyal i

\\ \\ 60% organul i, 35% araorganul i, 5% wyal i

\\ \\ 70% organul i, 20% araorganul i, 10% wyal i

\\ \\ 30% organul i, 68% araorganul i, 2% wyal i

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i gamoiyeneba dentinis periferiul i Sris aRsani Snavad?

\\ \\ mantiuri dentini

\\ \\ peritubul uri dentini

\\ \\ intertubul uri dentini

\\ \\ interql obul uri dentini

\\ \\ qvemoT CamoTvl il i uj redebidan romel i gvixvdeba ZiriTad kbil ebSi?

\\ \\ amel obl astebi

\\ \\ osteocitebi

\\ \\ cementocitebi

\\ \\ osteobl astebi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i ar gvixvdeba ZiriTadi kbil is Semadgenl obaSi?

\\ \\ amel obl astebi

\\ \\ odontobl astebi

\\ \\ cementocitebi

\\ \\ fibrobl astebi

\\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs predentini?

\\ \\ pul pis da dentinis sazRvarze

\\ \\ dentinis da duRabis sazRvarze

- \\ dentinisa da minanqris sazRvarze
- \\ minanqrisa da duRabis sazRvarze

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis dentinis mil akebs?

- \\ Seicavs umiel ino nervul boWkoebs
- \\ garSemortymul ia dabal i mineral izaciis xarixsis mqone peritubul uri dentiniT
- \\ sworzazovnad miemarTeba minanqar-dentinis sazRvrisaken
- \\ Seicavs odontobl astebis morCebs roml ebic aRwevs minanqarSi prizmebis saxiT

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs pul pa?

- \\ periodontiumis dacva
- \\ minanqris formireba
- \\ dentinis warmoqmna
- \\ fesvis xvrel is daxurva

\\ \\ \\ qvemoT CamoTvl il i Tagan romel i ar gv xvdeba kbil is pul pis Semadgenl obaSi?

- \\ nervebi da sisxl ZarRvebi
- \\ I imfuri ZarRvebi
- \\ odontobl astebi
- \\ adipocitebi

\\ \\ \\ pul pis qvemoT CamoTvl il i ubnebidan sad mdebareobs odontobl astebi?

- \\ periferiul i Sre
- \\ central uri Sre
- \\ Suamdebare Sre
- \\ apikal uri xvrel is midamo

\\ \\ \\ kbil is qvemoT CamoTvl il i ubnebidan sad gv xvdeba pul pis Suamdebare Sre?

- \\ gvirgvini
- \\ yel i
- \\ fesvi
- \\ minanqar-dentinis sazRvari

\\ \\ \\ pul pis qvemoT CamoTvl il i Sreebidan romel i mdebareobs uSual od dentinis qveS?

- \\ periferiul i
- \\ Suamdebare
- \\ central uri
- \\ uuj redo

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis odontobl astebs?

- \\ I abil uri forma
- \\ naTel i birTvi
- \\ sustad ganviTarebul i citoConCxi
- \\ grZel i morCi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ganasxvavebs gvirgvinisa da fesvis pul pas erTamneTisagan?

- \\ uj redbis arseboba
- \\ sisxl ZarRvebis arseboba
- \\ odontobl astebis ararseboba
- \\ periferiul i Sris arseboba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ganasxvavebs fesvis pul pas gvirgvinis pul pisagan?

\\ \\ didi raodenobiT odontobl astebis arseboba

\\ \\ faSari ganl ageba

\\ \\ didi raodenobiT kol agenuri boWkoebis arseboba

\\ \\ Suamdebare Sris arseboba

\\ \\ pul pis qvemoT CamoTvl il i ubnebidan sad aris yvel aze kargad ganviTarebul i kapil arul i qsel i?

\\ \\ periferiul i Sre

\\ \\ Suamdebare Sre

\\ \\ central uri Sre

\\ \\ apikal uri xvrel is midamo

\\ \\ qvemoT CamoTvl il i uj redebidan romel ia yvel aze didi raodenobiT pul paSi?

\\ \\ odontobl astebi

\\ \\ histiocytebi

\\ \\ Rerovani uj redebi

\\ \\ fibrobl astebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis pul pas?

\\ \\ mokl ebul ia yovel gvar mgrZnobel obas

\\ \\ ufro didi raodenobiT odontobl astebis Seicavs vidre fibrobl astebis

\\ \\ Seicavs mxol od III tipis kol agens

\\ \\ Seicavs sisxl ZarRvebs da nervebs

\\ \\ kol agenis qvemoT CamoTvl il i tipebidan romel i gv xvdeba duRabSi?

\\ \\ V

\\ \\ VI

\\ \\ IV

\\ \\ I

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i aRni Snavs SemaerTqsovi I ovan boWkoebs, roml ebic duRabs ukavSi rdeba?

\\ \\ krofis boWkoebi

\\ \\ el astikuri boWkoebi

\\ \\ retikul inis boWkoebi

\\ \\ Sarpeis boWkoebi

\\ \\ qvemoT CamoTvl il i ubnebidan sad ar gv xvdeba uuj redo duRabi?

\\ \\ fesvis apikal uri mesamedi

\\ \\ fesvis Sua mesamedSi

\\ \\ minanqar-duRabis sazRvarze

\\ \\ fesvis gvirgvini smxriv mesamedSi

\\ \\ fesvis qvemoT CamoTvl il i ubnebidan sad aris yvel aze Txel i duRabi?

\\ \\ fesvis mwverval ze

\\ \\ fesvis Sua mesamedSi

\\ \\ minanqar-duRabis sazRvarze

\\ \\ fesvis gvirgvini smxriv mesamedSi

\\ \\ qvemoT CamoTvl il i uj redebidan romel i warmoqmni duRabs?

\\ \\ cementokl astebi

\\ \\ cementobl astebi

\\ \\ amel obl astebi

\\ odontobl astebi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS uj redo duRabs?
\\ ganviTarebis procesSi uj redul duRabze adre warmoimneba
\\ yvel aze sqel ia minanqar-duRabis kavSiris midamoSi
\\ Seicavs cementocitebis morCebs
\\ Seicavs sisxl ZarRvebs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS uj redul duRabs?
\\ \\ umetes SemTxvevaSi uSual od dentinze mdebareobs
\\ \\ uj redebisa da uj redSorisi nivTierebisgan Sedgeba
\\ \\ ar gv xvdeba mraval fesvian kbil ebSi
\\ \\ gansakuTrebiT kargad aris gamoxatul i mol arebSi

\\ \\ qvemoT CamoTvl il i struqturebidan roml is arseboba ganaxvavebs Zvl ovan qsovil s uj redul i duRabisgan?
\\ \\ uj redebi
\\ \\ kol agenuri boWkoebi
\\ \\ sisxl ZarRvebi
\\ \\ ZiriTadi nivTiereba

\\ \\ qvemoT CamoTvl il i qsovil ebidan romel Tan aqvs msgavseba duRabs?
\\ \\ firfitovani Zvl ovani qsovil i
\\ \\ tl anqboWkovani Zvl ovani qsovil i
\\ \\ mkvrivi uformo SemaerTebel i qsovil i
\\ \\ kol agenurboWkovani qsovil i

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS uj redo duRabs?
\\ \\ maqsimal uri sisqis aris kbil is fesvis mwwerval ze
\\ \\ Seicavs sisxl ZarRvebs
\\ \\ ar Seicavs uj redebs
\\ \\ umetes SemTxvevaSi uSual od dentinis zemoT mdebareobs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS cementobl astebs?
\\ \\ kargad ganviTarebul i sinTezuri aparatis arseboba
\\ \\ duRabis zedapirze mdebareoba
\\ \\ mraval ricxovani morCebis arseboba
\\ \\ uj redSorisi matriqsis warmoqmnaSi monawil eoba

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS cementocitebs?
\\ \\ I akunebSi mdebareoba
\\ \\ morCebis ararseboba
\\ \\ aqtiuri regeneraciis unari
\\ \\ didi raodenobiT organel ebis arseboba

\\ \\ qvemoT CamoTvl il i uj redesidan roml is msgavsi agebul eba aqvs cementocitebs?
\\ \\ osteobl asti
\\ \\ osteociti
\\ \\ cementobl asti
\\ \\ qondrociti

\\ \\ qvemoT CamoTvl il i nawil ebidan romel i ar ekuTvnis RrZil s
\\ \\ mimagrebul i

\\ Tavisufal i
\\ kbil TaSorisi dvril is
\\ enis dvril is

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i faravs RrZil s?
\\ mraVal Sriani brtyel i garqovanebul i
\\ mraVal Sriani brtyel i gaurqovanebel i
\\ \\ mraVal Sriani gardamaval i
\\ mraVal Sriani kuburi

\\ \\ \\ qvemoT CamoTvl il i cvl il ebebidan romel s ganicdis cementocitebi duRabis
raodenobis matebasTan erTad?
\\ \\ intesiuri gamravl eba
\\ kvdoma
\\ \\ morCebis raodenobis mateba
\\ \\ metabol uri procesebis gaaqtiveba

\\ \\ \\ qvemoT CamoTvl il i struqturul i el ementebidan romel i ar gv xvdeba
RrZil is Semadgenl obaSi?
\\ \\ I orwovani garsis epiTel uri firfita
\\ \\ I orwovani garsis sakuTari firfita
\\ jirkvl ebi
\\ \\ nervul i dabol oebebi

\\ \\ \\ qvemoT CamoTvl il i struqtur ebidan roml is arsebobaa damaxasiaTebel i
RrZil isTvis?
\\ \\ sakuTari firfita
\\ \\ I orwqveSa Canafeni
\\ \\ kunTovani firfita
\\ \\ jirkvl ebi

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs kbil -RrZil is SeerTeba?
\\ \\ gviringvinis apikal uri nawil i
\\ \\ yel is midamo
\\ \\ fesvis midamo
\\ \\ fesvis mwverval i

\\ \\ \\ qvemoT CamoTvl il Tagan romel i ar Sedis periodontiumis Semadgenl obaSi?
\\ \\ al veol uri Zval i
\\ \\ periodotnis iogi
\\ \\ duRabi
\\ \\ dentini

\\ \\ \\ qvemoT CamoTvl il i struqtur ebidan romel Tan ara aqvs kavSiri
periodonteums?
\\ \\ dentini
\\ \\ ybis Zval i
\\ \\ RrZil is I orwovani garsi
\\ \\ minanaqari

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i warmoqm nis periodontis iogs?
\\ \\ xrtil i
\\ \\ myesi
\\ \\ faSari SemaerTebel i qsovil i
\\ \\ mkvrivi boWkovani SemaerTebel i qsovil i

\\ \\ qvemoT CamoTvl il i struqturebidan romel s akavSirebs erTmaneTTan periodontis iogi?

\\ duRabi da al vol uri Zval i

\\ \\ fesvis dentini da al veol uri Zval i

\\ \\ uj redul i da uuj redo duRabi

\\ \\ minanqari da al veol uri Zval i

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel i ar Sedis periodontis iogis Semadgenl obaSi?

\\ \\ fibrobl asti

\\ \\ osteokl astebi

\\ \\ cementobl astebi

\\ \\ cximovani uj redebi

\\ \\ \\ qvemoT CamoTvl il i uj redebidan romel ia yvel aze mraval ricxovani periodontis iogSi?

\\ \\ osteobl astebi

\\ \\ cementobl astebi

\\ \\ fibrobl astebi

\\ \\ osteokl astebi

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs kbil is sayrdeni aparati

\\ \\ damcvel obiTi

\\ \\ trofikul i

\\ \\ sayrdeni

\\ \\ regeneraciul i

\\ \\ \\ qvemoT CamoTvl il i struqturebidan roml ebs akavSirebs erTmaneTTan periodontul i iogi?

\\ \\ duRabi da dentini

\\ \\ dentini da al veol uri morCi

\\ \\ duRabi da al veol uri morCi

\\ \\ monanqari da RrZil i

\\ \\ \\ qvemoT CamoTvl il i funqciebidan romel s asrul ebs periodontul i iogi?

\\ \\ amagrebs kbil s kbil budeSi

\\ \\ monawil eobs pul pis aRdgenaSi

\\ \\ monawil eobs dentinogenezSi

\\ \\ minanqars RrZil Tan akavSirebs

\\ \\ \\ qvemoT CamoTvl il i ubnebidan sad mdebareobs mal ases epiTel uri narCenebi?

\\ \\ pul pa

\\ \\ periodontul i iogi

\\ \\ duRabi

\\ \\ dentini

\\ \\ \\ qvemoT CamoTvl il i struqturebidan romel i aZl evs dasabams mal ases epiTel ur narCenebs?

\\ \\ her tvil is fesvis epiTel uri bude

\\ \\ minanqris organos retikul umi

\\ \\ mezenqima

\\ \\ piris Rrus eqtoderma

\\ \\ \\ sicocxl is ra periodSi aris kbil Si epiTel uri narCenebis Semcvel oba maqsimal uri?

\\ \\ I aTvl eul Si

\\ II aTvl eul Si
\\ \\ III aTvl eul Si
\\ \\ IV aTvl eul Si

\\ \\ \\ periodontul i iogis Semadgenl obaSi arsebul i boWkoebidan romel i qmnis cirkul ur iogs?

\\ \\ al veol uri qedis boWkoebi
\\ \\ horizontul i boWkoebi
\\ \\ iribi boWkoebi
\\ \\ fesvTaSorisi boWkoebi

\\ \\ \\ periodontul i iogis qvemoT CamoTvl il i boWkoebidan romel ia yvel aze mraval ricxovani?

\\ \\ apikal uri
\\ \\ iribi
\\ \\ horizontul i
\\ \\ fesvTaSorisi

\\ \\ \\ periodontul i iogis qvemoT CamoTvl il i boWkoebidan romel i akavSirebs erTmanETTan mezobel kbil ebs?

\\ \\ apikal uri
\\ \\ horizontul i
\\ \\ fesvTaSorisi
\\ \\ iribi

\\ \\ \\ periodontul i iogis qvemoT CamoTvl il i boWkoebidan, romel i gvxxvdeba mxol od mraval fesvian kbil ebSi?

\\ \\ iribi
\\ \\ horizontal uri
\\ \\ fesvTaSorisi
\\ \\ al veol uri qedis

\\ \\ \\ qvemoT CamoTvl I il i dasaxel ebebidan romel i aRniSnavs sivrces, romel Sic kbil i mdbareobs?

\\ \\ al veol a
\\ \\ I akuna
\\ \\ kanal ikul a
\\ \\ CanTa

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS al veol ur morCs?

\\ \\ Seicavs al veol ebs
\\ \\ mxol od qvedaybaze gvxxvdeba
\\ \\ firfitovani Zvl ovani qsovil iT iqmneba
\\ \\ sakuTriv al veol uri da sayrdeni al veol uri Zvl isagan Sedgeba

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS al veol ur morCs?

\\ \\ zeda da qvedaybis warzidul i nawil ia
\\ \\ firfitovani Zvl ovani qsovil iT iqmneba
\\ \\ RrZiol isagan mkveTri sazRvariT aris gamoyofil i
\\ \\ Seicavs al veol ebs

\\ \\ \\ qvemoT CamoTvl il i qsovil ebidan romel i qmnis al veol ur morCs?

\\ \\ tl anqboRkovani Zvl ovani qsovil i
\\ \\ firfitovani Zvl ovani qsovil i
\\ \\ kol agenurboWkovani xrtil i

\\ hial inuri xrti i

\\ \\ qvemoT CamoTvl il i struqturibidan romel i gamoyofs al veol ebs erTmaneTisgan?

- \\ fesvTaSorisi Zgide
- \\ kbiI TaSorisi Zgide
- \\ kortikul i firfita
- \\ al veol uri morCi

\\ \\ al veol aSi fesvTaSorisi Zgide gv xvdeba:

- \\ mraVal fesvian kbiI ebSi
- \\ erTfesvian kbiI ebSi
- \\ saerTod ar gv xvdeba
- \\ rogorc erTfesvian ise mraVal fesvian kbiI ebSi

\\ \\ qvemoT CamoTvl il i vadebidan romel ze iwyeba ZiriTadi kbiI ebis amoWra?

- \\ 3-4 wel i
- \\ 6-7 wel i
- \\ 9-10 wel i
- \\ 1-2 wel i

\\ \\ qvemoT CamoTvl il i dasaxel ebebidan romel i Seesabameba al veol uri Zvl is im nawil s, romel ic uSual od akravs kbiI is fesvs da periodontis boWkoebs ukavSirdeba?

- \\ al veol uri qedi
- \\ al veol uri morCi
- \\ sakuTriv al veol uri Zval i
- \\ sayrdeni al veol uri Zval i

\\ \\ piriS Rrus qvemoT CamoTvl il i ubnebidan sad ar Seicavs an sad aris Zal ian sustad ganviTarebul i l orwovani garsis sakuTari firfita?

- \\ l oya
- \\ rbiI i sasa
- \\ enis qveda zedapiri
- \\ RrZil i

\\ \\ qvemoT CamoTvl il i Sual eduri fil amentebidan romel i gv xvdeba piriS Rrus l orwovani garsis epiTI ur uj redebSi?

- \\ desmini
- \\ keratini
- \\ vimentini
- \\ retikul ini

\\ \\ qvemoT CamoTvl il i Sual eduri fil amentebidan romel i gv xvdeba piriS Rrus l orwovani garsis sakuTari firfitis SemaerTqsovil ovan uj redebSi?

- \\ desmini
- \\ keratini
- \\ vimentini
- \\ retikul ini

\\ \\ qvemoT CamoTvl il i funqciebidan romel s ar asrul ebs piriS Rrus l orwovani garsi?

- \\ damcvel obiTi
- \\ sekreciul i
- \\ sensorul i
- \\ transportul i

\\ \\ epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel is gvxxvdeba piris Rrus I orwovani garsis Semadgenl obaSi?

\\ mraVal SrianI brtyel i

\\ \\ mraVal SrianI gardamaval i

\\ \\ ertSrIANI brtyel i

\\ \\ ertSrIANI mraVal rigIANI

\\ \\ \\ piris Rrus qvemoT CamoTvl il i ubnebidan roml isTvis ar aris damaxasiaTebel i epiTel iumis garqovaneba?

\\ \\ enis dorsal uri zedapiri

\\ \\ RrZil i

\\ \\ magari sasa

\\ \\ rbiL i sasa

\\ \\ \\ piris Rrus qvemoT CamoTvl il i ubnebidan roml isTvis aris damaxasiaTebel i I orwqveSa Canafenis arseboba?

\\ \\ enis dorsal uri zedapiri

\\ \\ RrZil i

\\ \\ rbiL i sasa

\\ \\ magari sasa

\\ \\ \\ piris Rrus qvemoT CamoTvl il i ubnebidan roml isTvis aris damaxasiaTebel i I orwqveSa Canafenis arseboba?

\\ \\ enis qveda zedapiri

\\ \\ enis dorsal uri zedapiri

\\ \\ magari sasa

\\ \\ RrZil i

\\ \\ \\ I orwovani garsis qvemoT CamoTvl il i tipebidan romel i faravs enis dorsal ur zedapirs?

\\ \\ mfaravi

\\ \\ saReWi

\\ \\ special uri

\\ \\ zogadi

\\ \\ \\ I orwovani garsis qvemoT CamoTvl il i tipebidan romel i faravs enis qveda zedapirs?

\\ \\ mfaravi

\\ \\ saReWi

\\ \\ special uri

\\ \\ zogadi

\\ \\ \\ I orwovani garsis qvemoT CamoTvl il i tipebidan romel i faravs RrZil s?

\\ \\ mfaravi

\\ \\ saReWi

\\ \\ special uri

\\ \\ zogadi

\\ \\ \\ I orwovani garsis qvemoT CamoTvl il i tipebidan romel i faravs magari sasas?

\\ \\ mfaravi

\\ \\ saReWi

\\ \\ special uri

\\ \\ zogadi

\\ \\ \\ piris Rrus qvemoT CamoTvl il i ubnebidan romel ia dafarul i saReWi I orwovani garsiT?

\\l magari da r bil i sasa
\\l magari sasa da RrZil i
\\l enis dorsal uri da ventral uri zedapirebi
\\l tuCi da l oya

\\l\\l piris Rrus qvemoT CamoTvl il i ubnebidan romel ia dafarul i mfaravi
l orwovani garsiT?
\\l magari da r bil i sasa
\\l magari sasa da RrZil i
\\l enis dorsal uri da ventral uri zedapirebi
\\l tuCi da l oya

\\l\\l piris Rrus qvemoT CamoTvl il i ubnebidan romel ia dafarul i special uri
l orwovani garsiT?
\\l enis ventral uri zedapiri
\\l RrZil i
\\l l oya
\\l enis dorsal uri zedapiri

\\l\\l epiTel uri qsovil is qvemoT CamoTvl il i tipebidan romel i faravs RrZil s?
\\l mraVal SrianI brtyel i gaurqovanebel i
\\l mraVal SrianI brtyel i garqovanebul i
\\l mraVal SrianI gardamaval i
\\l mraVal SrianI cil indrul i

\\l\\l piris Rrus qvemoT CamoTvl il i ubnebidan romel i xasiaTdeba epiTel uri
Sris ganaxl ebis yvel aze maRal i xarisxiT?
\\l RrZil i
\\l enis dorsal uri zedapiri
\\l l oya
\\l tuCi

\\l\\l piris Rrus qvemoT CamoTvl il i ubnebidan roml istvis ar aris
damaxasiaTebel i jirkvl ebis arseboba?
\\l RrZil i
\\l ena
\\l l oya
\\l r bil i sasa

\\l\\l RrZil is qvemoT CamoTvl il i ubnebidan sad gvxxvdeba mraVal SrianI
gaurqovanebel i epiTel iumi?
\\l mimagrebul i nawil i
\\l Tavisufal i nawil i
\\l RrZil is Rari
\\l k bil TaSorisi dvril i

\\l\\l qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebis saReW l orwovan
garss?
\\l gvxxvdeba mxol od RrZil Si
\\l gvxxvdeba mxol od magar sasaze
\\l mraVal SrianI gaurqovanebel i epiTel iumiT iqmneba
\\l mraVal aSrianI garqovanebul i epiTel iumiT iqmneba

\\l\\l magari sasis qvemoT CamoTvl il i nawil ebidan romel i mdebareobs sasis wina
mesamedSi?
\\l cximovani zona
\\l jirkvl ovani zona

\\ sasis nakeris zona
\\ kidura zona

\\ \\ magari sasis qvemoT CamoTvl il i nawil ebidan romel s uj Wiravs sasis ukana 2/3?

\\ cximovani zona
\\ jirkvl ovani zona
\\ sasis nakeris zona
\\ kidura zona

\\ \\ magari sasis qvemoT CamoTvl il i ubnebidan romel i ar Seicavs I orwqveSa Canafens?

\\ cximovani da jirkvl ovani
\\ cximovani da l ateral uri
\\ l ateral uri da sasis nakeris
\\ jirkvl ovani da l ateral uri

\\ \\ magari sasis qvemoT CamoTvl il i ubnebidan romel i Seicavs I orwqveSa Canafens?

\\ cximovani da jirkvl ovani
\\ cximovani da l ateral uri
\\ l ateral uri da sasis nakeris
\\ jirkvl ovani da l ateral uri

\\ \\ magari sasis qvemoT CamoTvl il i ubnebidan sad mdebareobs qedis formis naoWebi?

\\ jirkvl ovani
\\ cximovani
\\ l ateral uri
\\ sasis nakeris

\\ \\ qvemoT CamoTvl il Tagan romel i formis dvril ebis arsebobaadamaxasiaTebel i magari sasisaTvis?

\\ sokosebri
\\ TiTisebri
\\ Zafisebri
\\ foTI isebri

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebbs magari sasis cximovan zonas?

\\ l orwqveSa CanafenSi didi raodenobiT cximovan qsovil s Seicavs
\\ l orwqveSa CanafenSi didi raodenobiT l orwovan jirkvl ebs Seicavs
\\ l orwovani garsi qedis formis naoWebs qmnis
\\ magari sasis wina mesamedSi mdebareobs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebbs magari sasis cximovan zonas?

\\ ar Seicavs I orwqveSa garss
\\ magari sasis ukana mesamedSi mdebareobs
\\ didi raodenobiT jirkvl ebs Seicavs
\\ l orwovani garsi qedis formis naoWebs qmnis

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebbs magari sasis jirkvl ovan nawil s?

\\ ar Seicavs I orwqveSa garss
\\ magari sasis ukana 2/3 uWiravs
\\ ar Seicavs jirkvl ebs

\\ I orwovani garsi qedis formis naoWebs qmnis

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis magari sasis jirkvl ovan nawil s?

\\ ar Seicavs I orwqveSa garss

\\ Seicavs didi raodenobiT I orwovan jirkvl ebs

\\ magari sasis ukana 2/3 uWiravs

\\ I orwqveSa garsSi jirkvl ebs terminal uri nawil ebi mdebareobs

\\ \\ piris Rrus qvemoT CamoTvl il i organoebida roml is ganviTarebis defeqti iwvevs `mgl is xaxis- warmoqmnas?

\\ sasa

\\ RrZil i

\\ ena

\\ tuCi

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis rbil sasis?

\\ I orwovani garsis naoWia

\\ magari sasis gagrZel ebaa

\\ didi raodenobiT sisxl ZarRvebs Seicavs

\\ magari sasisagan sasis nakeriT aris gamoyofil i

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis rbil sasis?

\\ magari sasis gagrZel ebaa

\\ didi raodenobiT sisxl ZarRvebs Seicavs

\\ ar Seicavs dvril ebs

\\ I orwqveSa garsSi mcire sanerwyve jirkvl ebs da cximovan qsovil s Seicavs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis rbil i sasis wina (pirxaxis) zedapirs?

\\ dafarul ia mraval Sriani gaurqovanebel i epiTel iumiT

\\ I orwovani garsis sakuTari firfita maRal dvril ebs qmnis

\\ I orwqveSa CanafenSi Seicavs cximovani qsovil is grovebs

\\ ar Seicavs jirkvl ebs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebis rbil i sasis ukana (cxvir-xaxis) zedapirs?

\\ dafarul ia mraval Sriani gaurqovanebel i epiTel iumiT

\\ dafarul i mraval rigiani mocimcime epiTel iumiT

\\ ar Seicavs I orwqveSa Canafens

\\ Seicavs sanerwyve jirkvl ebs da I imfur fol ikul eb

\\ \\ qvemoT CamoTvl il i ubnebidan romel i ar aris dafarul i mraval Sriani brtyel i epiTel iumiT?

\\ magari sasis jirkvl ovan nawil i

\\ magari sasis l ateral uri nawil i

\\ rbil i sasis cxvir-xaxis zedapiri

\\ rbil i sasis pir-xaxis zedapiri

\\ \\ piris Rrus qvemoT CamoTvl il i ubnebidan romel ia dafarul i mraval rigiani prizmul i mocimcime epiTel iumiT?

\\ RrZil i

\\ magari sasis cximovani zona

\\ rbil i sasis ukana zedapiri

\\ enis dorsal uri zedapiri

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS tuCis kanis nawil s?

- \\ \\ dafarul i mraVal SrianI brtyel i garqovanebul i epiTel iumiT
- \\ ar Seicavs saofl e jirkvl ebs
- \\ \\ Seicavs Tmebs da qonis jirkvl ebs
- \\ \\ Seicavs ConCxis ganivzol ian kunTovan boWkoebs

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS tuCis gardamaval nawil s?

- \\ \\ dafarul ia mraVal SrianI brtyel i gaurqovanebel i epiTel iumiT
- \\ \\ ar Seicavs Tmebs da saofl e jirkvl ebs
- \\ \\ qonis jirkvl ebi SenarCunebul ia
- \\ \\ sakuTari firfita maRal dvril ebs qmnis

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS tuCis gardamaval nawil s?

- \\ \\ dafarul ia mraVal SrianI brtyel i garqovanebul i epiTel iumiT
- \\ \\ ar Seicavs qonis jirkvl ebs
- \\ \\ didi raodenobiT Tmebs da saofl e jirkvl ebs Seicavs
- \\ \\ susti sisxl momaragebiT xasiaTdeba

\\ \\ qvemoT CamoTvl il i struqturEbidan roml is arseboba ganasxvavebs tuCis kanis nawil s gardamaval i nawil isagan?

- \\ \\ mraVal SrianI brtyel i garqovanebul i epiTel iumi
- \\ \\ sakuTari firfita
- \\ \\ qonis jirkvl ebi
- \\ \\ saofl e jirkvl ebi

\\ \\ qvemoT CamoTvl il i tuCis qvemoT CamoTvl il i nawil ebidan sad gv xvdeba saofl e jirkvl ebi

- \\ \\ mxol od kanis nawil Si
- \\ \\ mxol od gardamaval nawil Si
- \\ \\ kanisa da gardamaval nawil Si
- \\ \\ gardamaval da l orwovan nawil Si

\\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS tuCis l orwovan nawil s?

- \\ \\ dafarul ia mraVal SrianI brtyel i garqovanebul i epiTel iumiT
- \\ \\ ar Seicavs l orwqveSa Canafens
- \\ \\ kargi sisxl momaragebiT xasiaTdeba
- \\ \\ Seicavs mcire sanerwyve jirkvl ebs

\\ \\ enis qvemoT CamoTvl il i dvril ebidan romel ia gamoxatul i mxol od bavSvTa asakSi?

- \\ \\ Zafisebri
- \\ \\ sokosebri
- \\ \\ foTI isebri
- \\ \\ SemozRudul i

\\ \\ enis qvemoT CamoTvl il i dvril ebidan romel ia yvel aze didi zomis?

- \\ \\ Zafisebri
- \\ \\ sokosebri
- \\ \\ foTI isebri
- \\ \\ SemozRudul i

\\ \\ enis qvemoT CamoTvl il i ubnebidan sad aris yvel aze mraVal ricxovani sokosebri dvril ebi?

\\ mwverval ze
\\ \\ ventral ur zedapirze
\\ \\ sxeul sa da enis Zirs Soris
\\ \\ l ateral u zedapirebze

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS Zafisebr
dvril s?
\\ \\ asrul ebs meqanikur funqcias
\\ \\ dafarul i mraVal Sriani brtyel i nawil obriv garqovanebul i epiTel iumiT
\\ \\ konusisebri forma aqvs
\\ \\ Seicavs gemovnebis kvirtebs

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS foTI isebr
dvril ebs?
\\ \\ mozdil ebSi rudimentis saxiT gvxdeba
\\ \\ gemovnebis kvirtebs Seicavs
\\ \\ erTmaneTisagan RarebiT aris gamoyofil i
\\ \\ ZiriTadad enis wverze mdebareobs

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS SemozRudul
dvril s?
\\ \\ yvel aze msxvil ia dvril ebs Soris
\\ \\ yvel aze mraVal ricxovania enis mwverval is midamoSi
\\ \\ mraVal ricxovan gemovnebis kvirtebs Seicavs
\\ \\ sakuTar firfitaSi kunTOvani boWkoebs Seicavs

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i ar axasiaTebS sokosebr
dvril s?
\\ \\ gansakuTrebiT mraVal ricxovania enis mwverval is midamoSi
\\ \\ SemozRudul dvril ebs Soris mdebareobs
\\ \\ mraVal Sriani gaurqovanebel i epiTel iumiT aris dafarul i
\\ \\ kargi sisxl momaragebiT xasiaTdeba

\\ \\ \\ enis qvemoT CamoTvl il i dvril ebidan romel i ar Seicavs gemovnebis
kvirtebs?
\\ \\ Zafisebri
\\ \\ sokosebri
\\ \\ foTI iseBri
\\ \\ SemozRudul i

\\ \\ \\ enis qvemoT CamoTvl il i dvril ebidan romel i Seicavs yvel aze didi
raodenobiT gemovnebis kvirtebs?
\\ \\ Zafisebri
\\ \\ sokosebri
\\ \\ foTI iseBri
\\ \\ SemozRudul i

\\ \\ \\ enis qvemoT CamoTvl il i dvril ebidan romel is irgvl iv arsebul RArSi
ixsneba ebneris jirkvl ebis sadinrebi?
\\ \\ Zafisebri
\\ \\ sokosebri
\\ \\ foTI iseBri
\\ \\ SemozRudul i

\\ \\ \\ sanerwyve jirkvl ebis qvemoT CamoTvl il i sadinrebidan romel i warmoadgens
sekreciul i nawil is uSual o gagrZel ebas?

\\ zol iani
\\ CarTul i
\\ wil akSorisi
\\ wil TaSorisi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS ybayura jirkval s?
\\ iqmneba serozul i uj redebiT
\\ \\ martivi mil akovani jirkval ia
\\ \\ Seicavs enteroendokrinul uj redebs
\\ \\ Seicavs serozul da mukozur terminal ur nawil ebs

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS serozul
naxevarmTvareebS?
\\ \\ gvXvdeba ybayura jirkval Si
\\ \\ serozul terminal ur bol oebze mdebareobs
\\ \\ gvXvdeba mxol od enisqveSa jirkvl ebSi
\\ \\ gvXvdeba enisqveSa da ybisqveSa jirkvl ebSi

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS serozul
naxevarmTvareebS?
\\ \\ gvXvdeba ybayura jirkval Si
\\ \\ cil ovan sekrets gamoimuSavebs
\\ \\ al veol ur terminal ur nawil Tan aris dakavSirebul i
\\ \\ I orwos warmomqmel i gl andul ocitebia

\\ \\ \\ qvemoT CamoTvl il i jirkvl ebidan romel s axasiaTebS serozul i
naxevarmTvareebis arseboba?
\\ \\ ybayura
\\ \\ enisqveSa
\\ \\ farisebri
\\ \\ pankreasi

\\ \\ \\ epiTel uri qsovil is qvemoT CamoTvl il i saxeebidan romel i amofens CarTul
sadinars?
\\ \\ erTSriani mraval rigiani mocimcime epiTel iumiT
\\ \\ erTSriani kuburi epiTel iumiT
\\ \\ erTSriani cil indrul i epiTel iumiT
\\ \\ mraval Sriani brtyel i epiTel iumiT

\\ \\ \\ qvemoT CamoTvl il i Taviseburebebidan romel i axasiaTebS ybayura
jirkval s?
\\ \\ yvel aze didi sanerwyve jirkval ia
\\ \\ rTul i al veol uri jirkval ia
\\ \\ Seicavs serozul da mukozur terminal ur nawil ebs
\\ \\ Seicavs mxol od serozul terminal ur nawil ebs