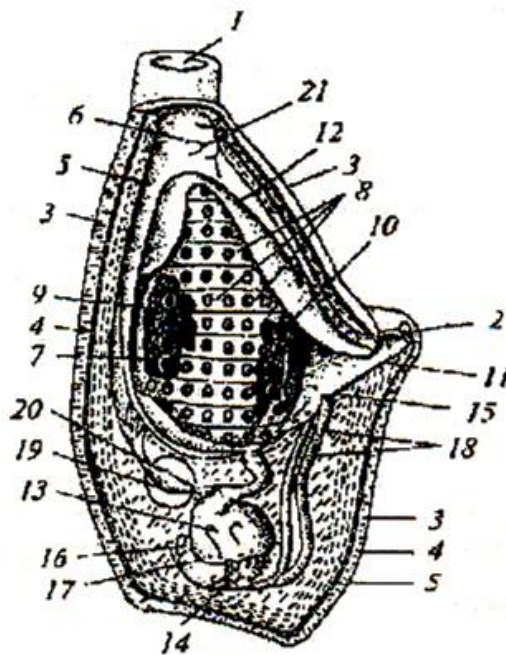
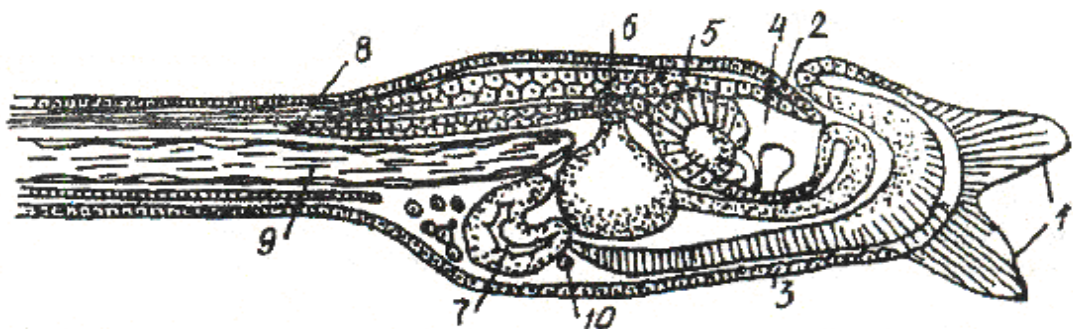


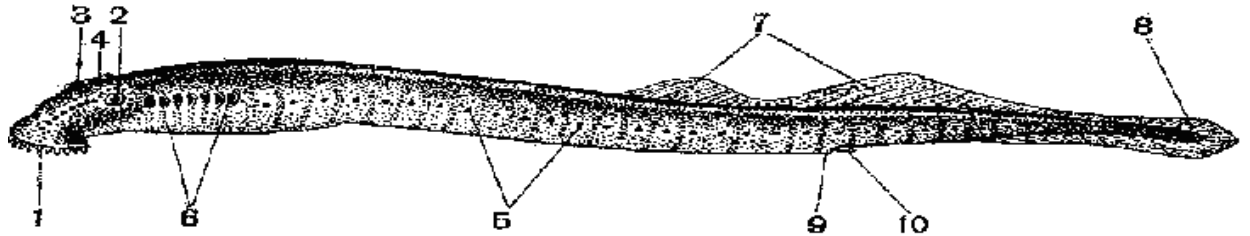


**1.2-rasm. Yakka assidiyaning ichki tuzilishi:** 1-og`iz sifoni, 2-kloaka sifoni, 3-parda(tunika), 4-mantiya entodermasi, 5-mantiyaning muskul qatlami, 6-halqum, 7-halqum bo`shlig`i, 8-jabra yoriqlari, 9-endostil, 10-orqa egati, 11-jabraoldi bo`shlig`i, 12- jabraoldi bo`shlig`ining devori, 13-oshqozoni, 14-jigar o`simtalari, 15-anal teshigi, 16-urug`don, 17-tuxumdon, 18-jinsiy bezlarining naylari, 19-yurakoldi xaltasi, 20-yurak, 21-nerv tugunchasi.



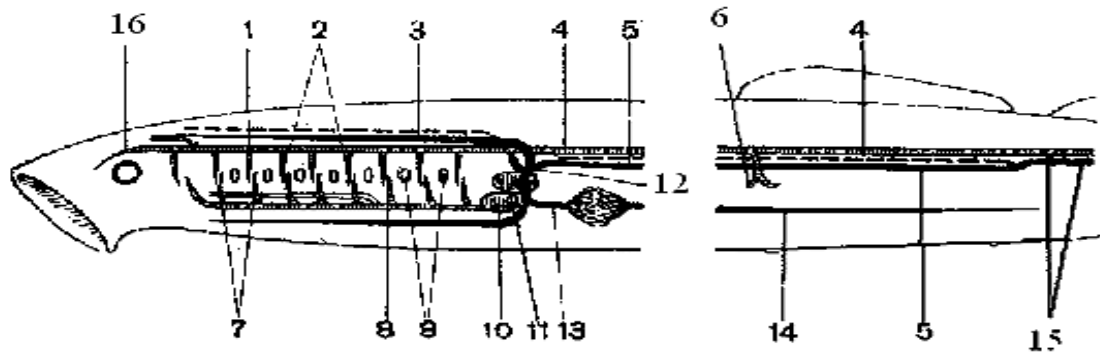
**1.3-rasm. Assidiya lichinkasining ichki tuzilishi:** 1-birikish so`rg`ichlari, 2-og`zi, 3-endostil, 4-nervi, 5-ko`zchasi, 6-kloaka teshigi, 7-ichagi, 8-nerv nayi, 9-xordasi, 10-yuragi

**To'garak og'izlilar mavzusi bo'yicha tarqatma material:**

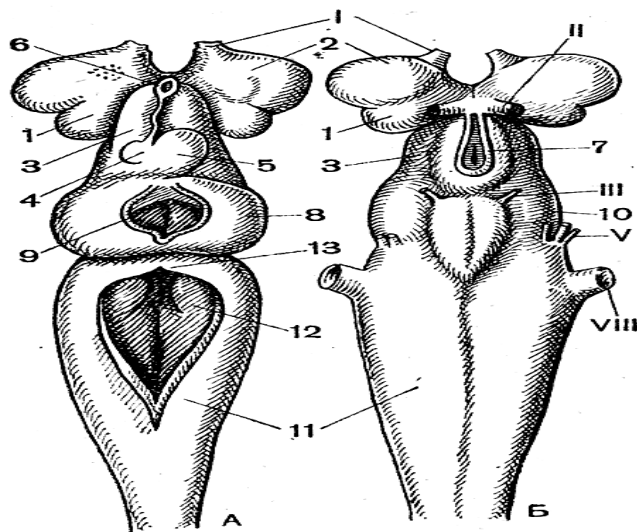


**Daryo minogasining tashqi ko'rinishi:** 1-og'iz oldi voronkasi (so'rg'ichi), 2-kuz,3-toq burun teshigi,4-yashirin organ, 5-yon chiziq organining teshiklari, 6-jabra xaltachalarining tashqi teshigi, 7-orqa suzgich qanotlari, 8-dum suzgich qanoti, 9-anal teshigi, 10-siydik-tanosil so'rg'ichi.





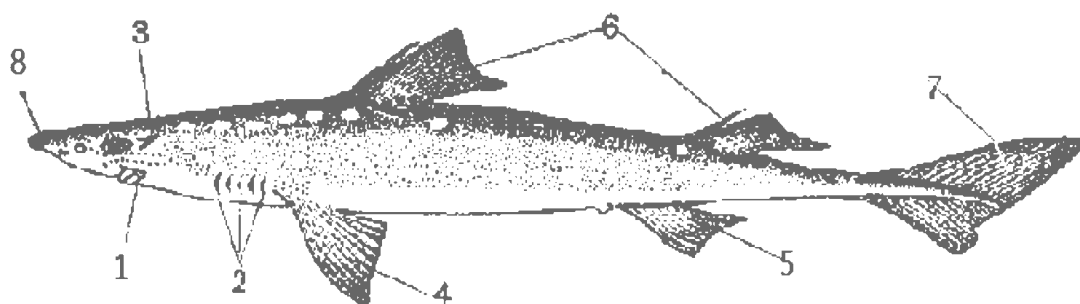
**Minoganing qon aylanish sistemasi:** 1-aorta ildizlari, 2-qon olib ketuvchi jabra arteriyalari, 3-oldingi kardinal vena, 4-orqa aorta, 5-keyingi kardinal vena, 6-ichak arteriyasi, 7-qon olib keluvchi jabra arteriyalari, 8-qorin aortasi, 9-jabra yoriqlari, 10-yurak qorinchasi, 11-yurak bo'limasi, 12-venoz sinusi, 13-jigar venasi, 14-ichak osti venasi, 15-dum venasi va arteriyasi, 16-uyqu arteriyasi.



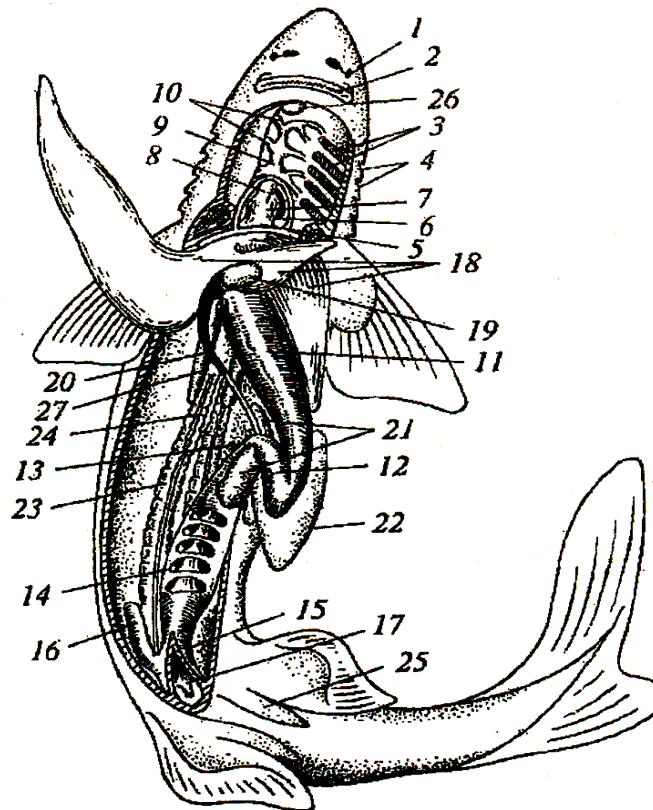
**Minoga bosh miyasining yuqori (A) va pastdan (B) ko'rinishi:** 1-oldingi miyaning katta yarimsharlari, 2-hidlov bo'limi, 3-oraliq miya, 4-5-o'ng va chap gabenulyar tugunchalar, 6-epifiz, 7-miya voronkasi, 8-o'rta miyaning ko'rish bo'limi, 9-o'rta miya qopqog'idagi teshik, 10-o'rta miya tagi, 11-uzunchoq miya, 12-rombsimon chuqurcha, 13-murtak holdagi miyacha. Rim raqamlari bilan bosh miya nervlari belgilangan

## **BALIQLAR EKOLOGIYASI**

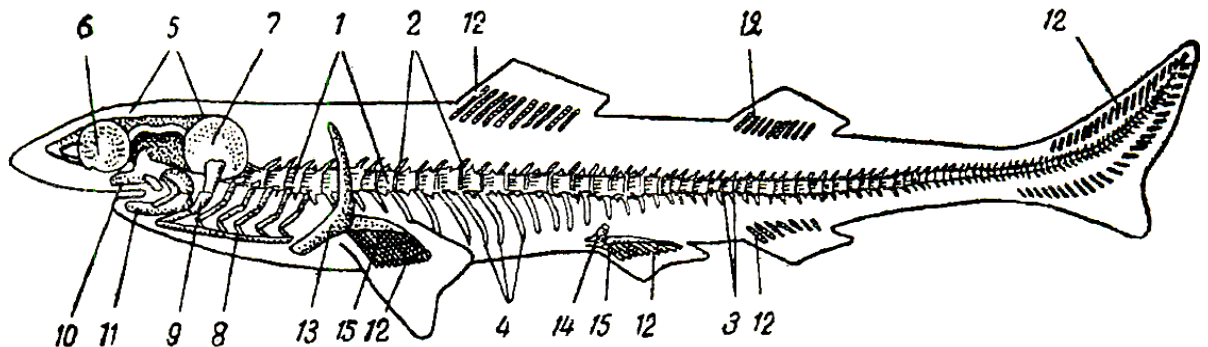




**Tikanli akulaning tashqi tuzilishi:** 1- og'iz teshigi, 2- jabra yoriqlari, 3 - sachratqich, 4 - ko'krak suzgich, 5 - qorin suzgich, 6 - orqa suzgich, 7 - dum suzgich. 8 - tumshuq (rostrum).

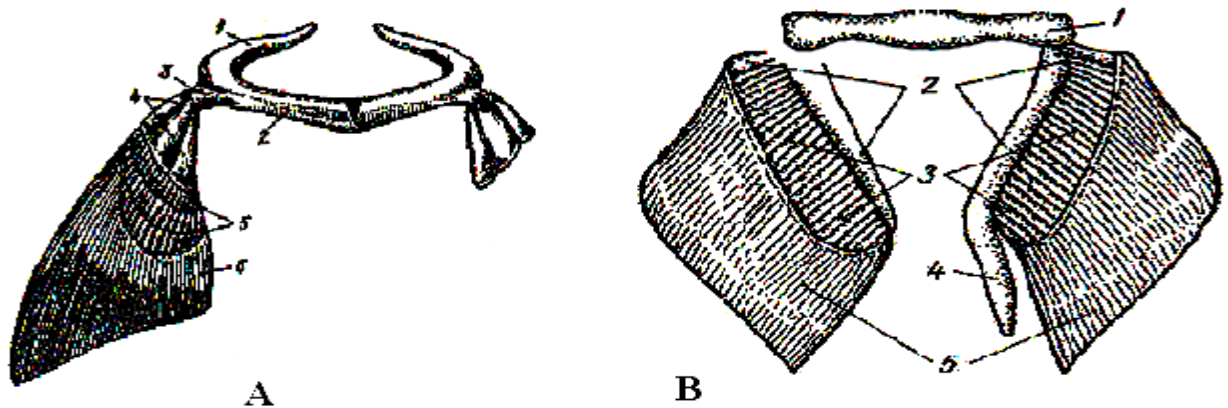


**Akula ichki organlarning tuzilishi(erkagi):** 1-burun teshiklari, 2-og`iz teshigi, 3-jabralar, 4-tashqi jabra yoriqlari, 5-venoz qo`ltig`i, 6-yurak oldi bo`lmasi, 7-yurak qorinchasi, 8-arterial konusi, 9-qorin aortasi, 10-jabruga olib keluvchi arteriyasi, 11-oshqozonning kardial qismi, 12-oshqozonning pilorik qismi, 13-ingichka ichak, 14-ichi yorilgan spiral klapanli yo`g`on ichagi, 15-to`g`ri ichak, 16-rektal bezi, 17-kloakasi, 18-jigari, 19-o`t pufagi, 20-o`t yo`li, 21-oshqozon osti bezi, 22-talog`i, 23-buyragi, 24-urug` yo`li, 25-qorin juft suzgich qanotining kopulyativ o`simtasi, 26-qalqonsimon bez, 27-urug`don.



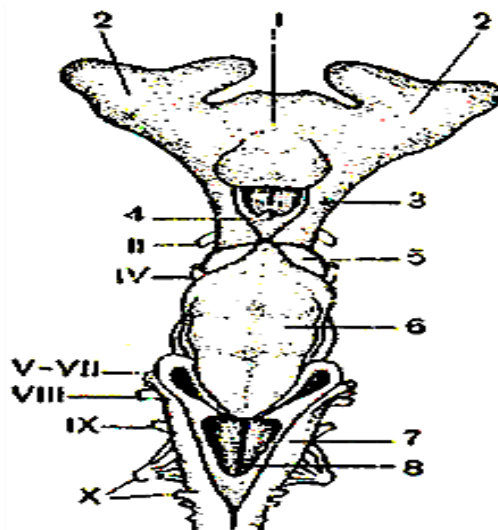
**Akula skeletining umumiy tuzilishi:** 1-umurtqalar, 2-umurtqalarning ustki yoylari, 3-umurtqalarning pastki yoylari, 4-qovurg`alar, 5-miya qutisi, 6-hidlov

kapsulasi, 7-eshituv kapsulasi, 8-jabra yoyi, 9-tilosti yoyi, 10-tanglay-kvadrat tog`ay, 11-mekkel tog`ayi, 12-radialiyalar, 13-yelka kamari, 14-chanoq kamari, 15-bazaliyalar.



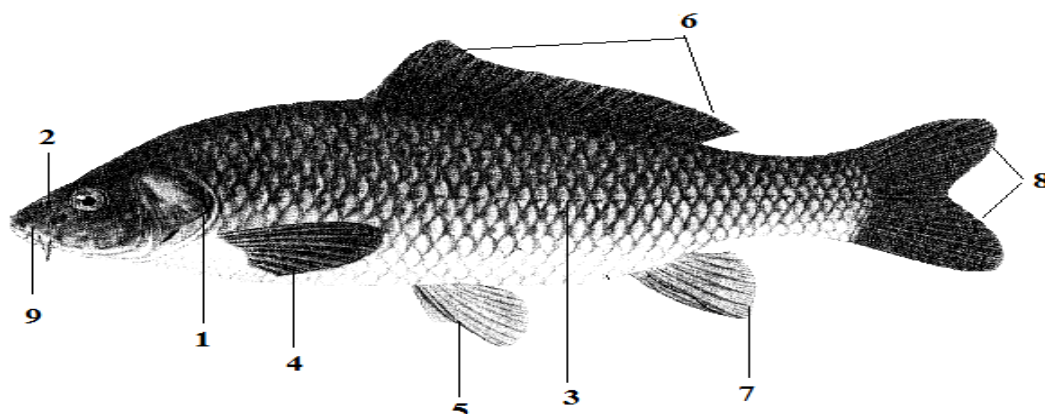
(A-akulaning yelka kamari va ko`krak suzgich qanoti). (B- urg`ochi va erkak akulaning qorin suzgich qanoti skeleti va chanoq kamari): A.1-yelka kamarining ko`krak bo`limi, 2-yelka kamarining korokoid bo`limi, 3-birikish bo`rtmasi, 4-bazaliyalar, 5-radialiyalar, 6-elastik iplar.

B. 1-chanoq plastinkasi, 2- bazaliyalar, 3- radialiyalar, 4-kopulyativ organ o`simtasi, 5 –elastik iplar.



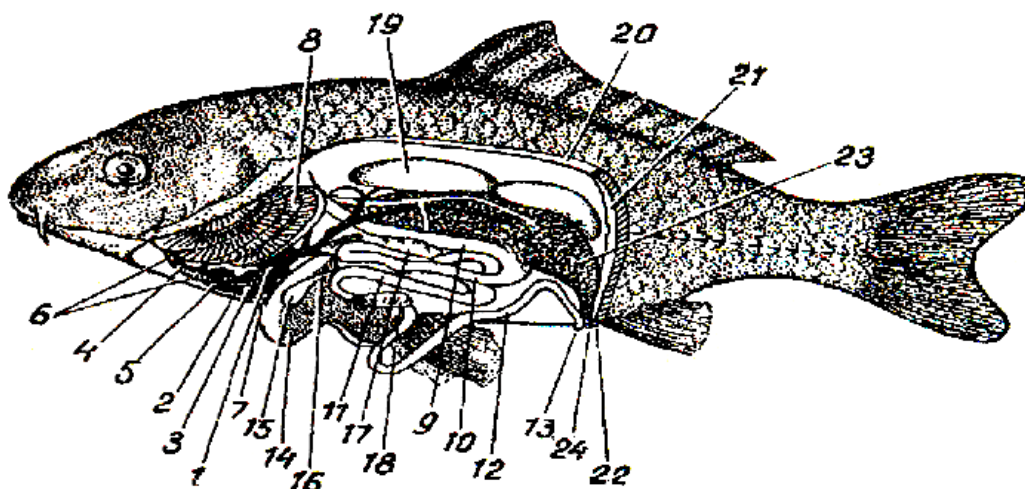
Akula bosh miyasining yuqoridan ko`rinshi: 1-oldingi miya yarimsharlari, 2-hidlov bo`laklari, 3-oraliq miya, 4-epifiz, 5-o`rta miya, 6-miyacha, 7-uzunchoq miya, 8-rombsimon chuqurcha. Rim raqamlari bilan bosh miyadan chiqadigan nervlar ko`rsatilgan.





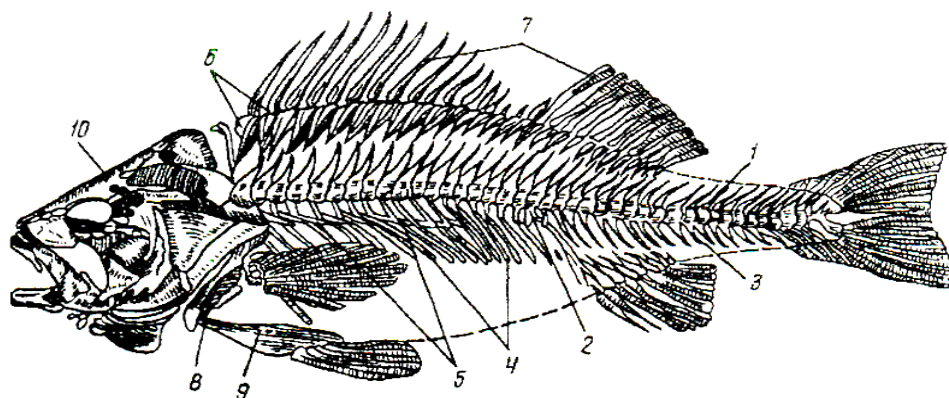
**Zog'ora baliqning tashqi tuzilishi.** 1 - jabra qopqog'i, 2 - burun teshigi, 3 - yon chiziq, 4 - ko'krak suzgich, 5 - qorin suzgich, 6- orqa suzgich, 7- anal suzgich, 8- dum suzgichi, 9 - og'iz teshigi.

Zog'ora baliqning burun teshiklari og'iz bo'shlig'iga ochilmaydi (burun teshigiga nina tiqib sinab ko'ring).

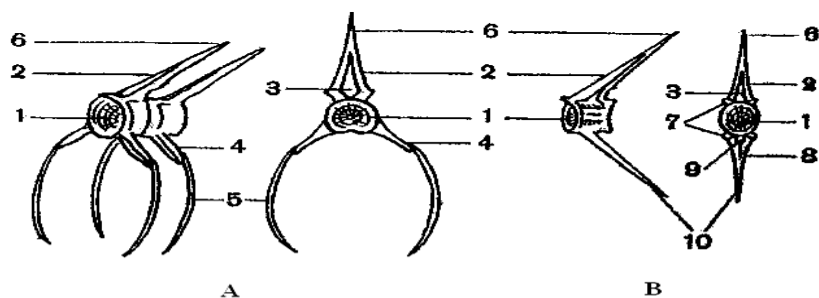


**Zog'ora baliq ichki organlarining tuzilishi:** 1-venoz qo'ltig'i, 2-yurak bo'lmasi, 3-yurak qorinchasi, 4-qorin aortasi, 5-aorta so'g'oni, 6-olib keluvchi jabra arteriyalari, 7-kyuyverov quyilishi, 8-jabra, 9-oshqozon, 10-o'n ikki barmoqli ichak, 11-ingichka ichak, 12-to'g'ri ichak, 13-anal teshigi, 14-jigar, 15-o't pufagi, 16-o't yo'li, 17-oshqozon osti bezi, 18-taloq, 19-suzgich pufagi, 20-buyrak, 21-siydik yo'li, 22-siydik tanosil o'sig'i, 23-jinsiy bez, 24-jinsiy teshik.





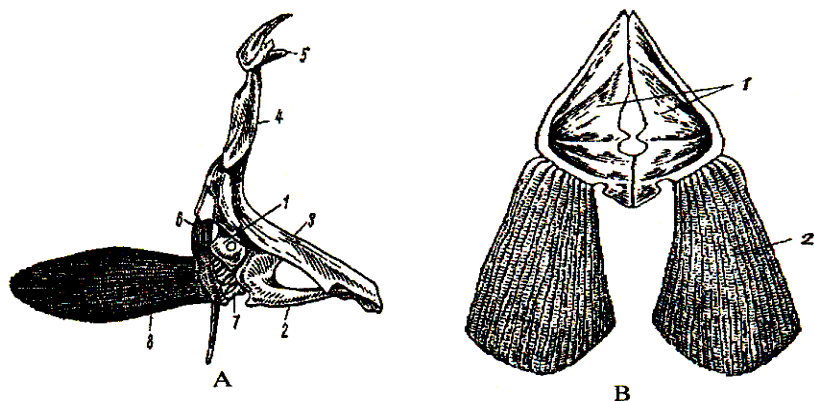
**Suyakli baliqlarning umumiy skeleti:** 1-umurtqaning ustki ostist o`simtasi, 2-umurtqaning pastki yoyi, 3- umurtqaning pastki ostist o`simtasi, 4-qovurg`alar, 5-muskul oralig`i suyakchalari, 6-qanot shu`llarining asosiy(radialiya)suyakchalari,7-qanot shu`llari, 8-yelka kamari suyaklari, 9-chanoq kamari suyaklari, 10-bosh skeleti.



**A-** tana bo`limi umurtqasining oldingi tomondan ko`rinishi.

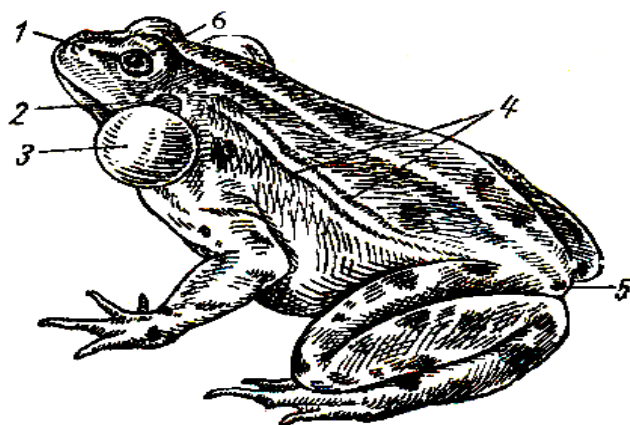
**B-** dum bo`limi umurtqasining oldingi tomondan ko`rinishi.

1-umurtqa tanasi, 2-ustki yoy, 3-orqa miya kanali, 4-ko`ndalang o`simta, 5-qovurg`a, 6-ustki ostis o`simta, 7-qiltanoqlar, 8-pastki yoy, 9-gemal kanal, 10-pastki ostist

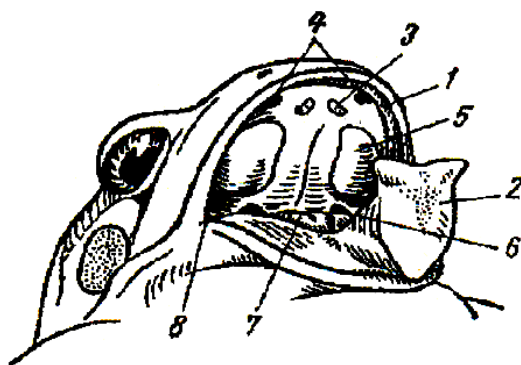


**A.\_Zog`ora baliqning yelka kamari va suzgich qanotlarining skeleti:** 1-kurak suyagi, 2-korakoid, 3-kleytrum, 4-kleytrum usti suyagi, 5- orqa ensa suyagi, 6-orqa o`mrov suyagi, 7-radialiyalar, 8-teri suyak shu`llari.

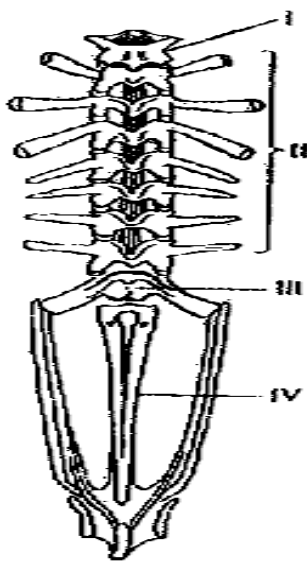
**B.\_Zog`ora baliqning chanoq kamari va suzgich qanotlari:** 1-chanoq suyaklari, 2-teri suyak shu`llari.



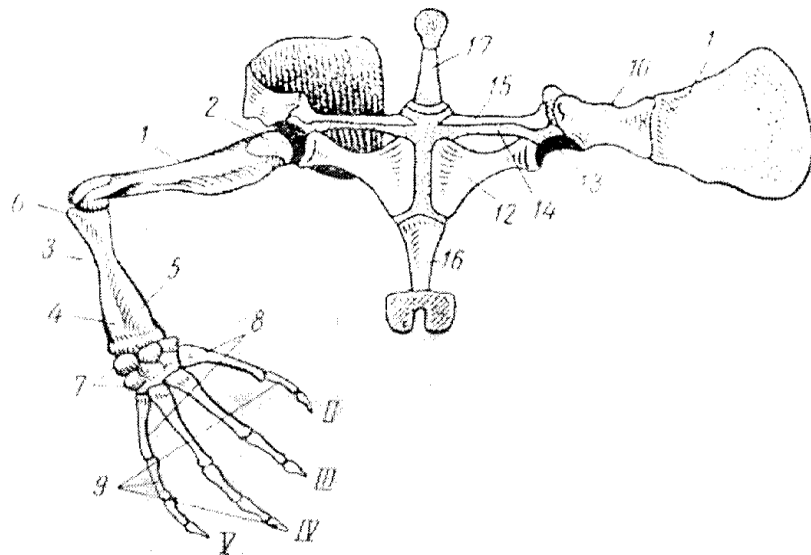
**Ko'l baqasining tashqi tuzilishi.** 1 – burun teshigi, 2 – nog'ora parda, 3 – rezonator, 4 – teri qatlami, 5 – kloaka teshigi, 6 – ko'z.



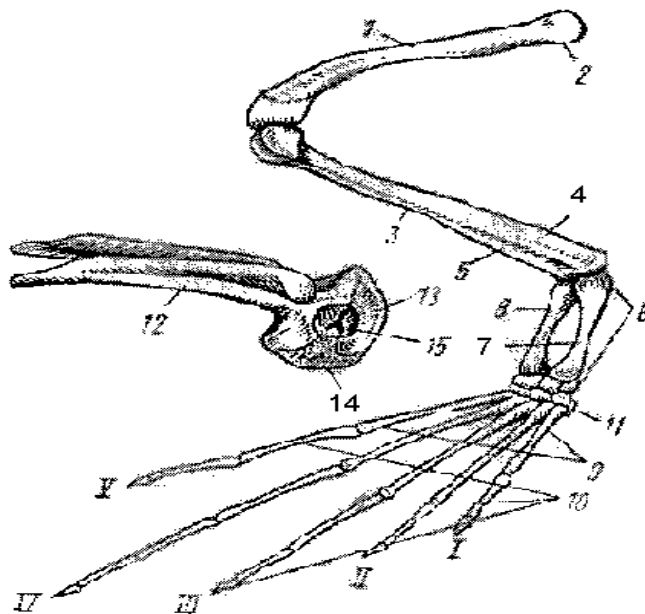
**Baqa og'iz bo'shlig'ining tuzilishi:** 1-tishlari, 2-tili, 3-dimog` suyagidagi tishlari, 4-xoanalar, 5-ko`z olmasi(og`iz bo`shlig`idan ko`rinishi ), 6-yevstaxiyev naylarining teshiklari, 7-hiqildoq yorig`i, 8-rezanatorning teshigi.



**Baqaning o`q skeleti:** 1-bo`yin umurtqasi, 2-tana umurtqalari, 3-dumg`aza umurtqasi, 4- urostil (qo`shilib ketgan dum umurtqalari).

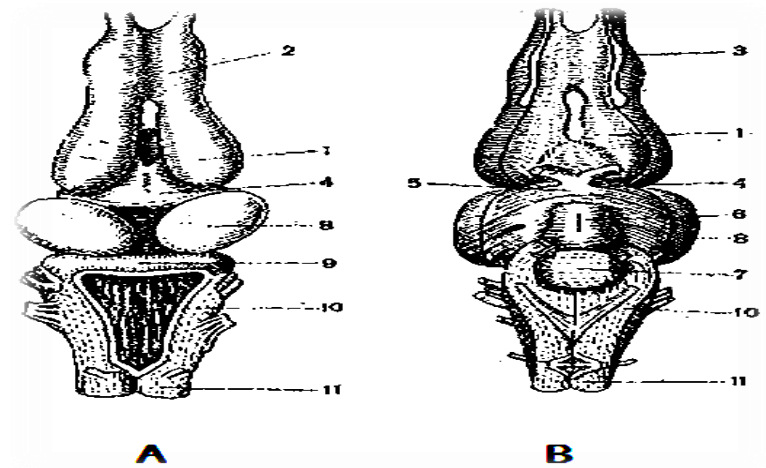


**Baqaning oldingi oyoq va yelka kamari skeleti:** 1-yelka suyagi, 2-yelka suyagining boshi, 3-yelka oldi suyagi, 4-tirsak suyagi, 5-bilak suyagi, 6-tirsak o'simtasi, 7-bilguzuk, 8-kaft, 9-barmoq falangalari, 10-kurak, 11-kurak usti tog'ayi, 12-korakoid, 13-yelka suyagining boshchasi birikadigan bo'g'im chuqurchasi, 14-prokorakoid tog'ayi, 15-o'mrov, 16-to'sh suyagi, 17-to'sh oldi suyagi, I-reduksiyaga uchragan birinchi barmoq, II-V-to'liq rivojlangan barmoqlari.



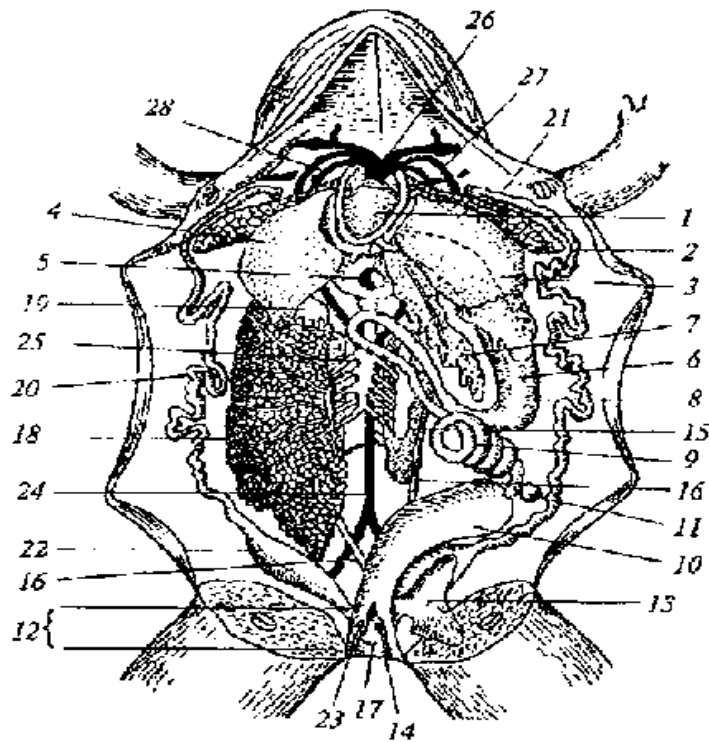
**Baqaning orqa oyog'i skeleti (A) va chanoq kamarining yon tomondan ko'rinishi:** 1-son suyagi, 2-sonning boshchasi, 3-boldir suyaklari, 4-katta boldir suyagi, 5-kichik boldir suyagi, 6-tovon suyaklari, 7-tibiale, 8-fibulare, 9-oyoq kafti,

10-barmoq falangalari, 11-IV-barmoqning qoldig`i(rudimenti),12-yonbosh suyagi,13- quymich suyagi,14 -qov tog`ayi, 15-quymich kosasi, I-V- barmoqlari.

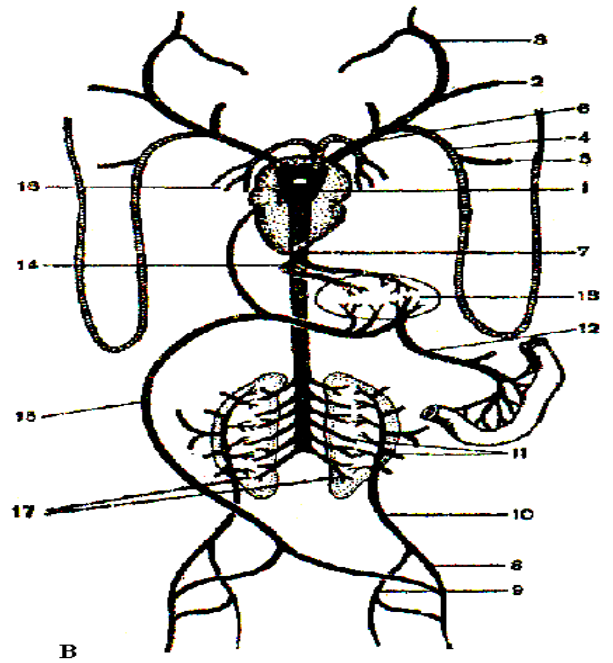
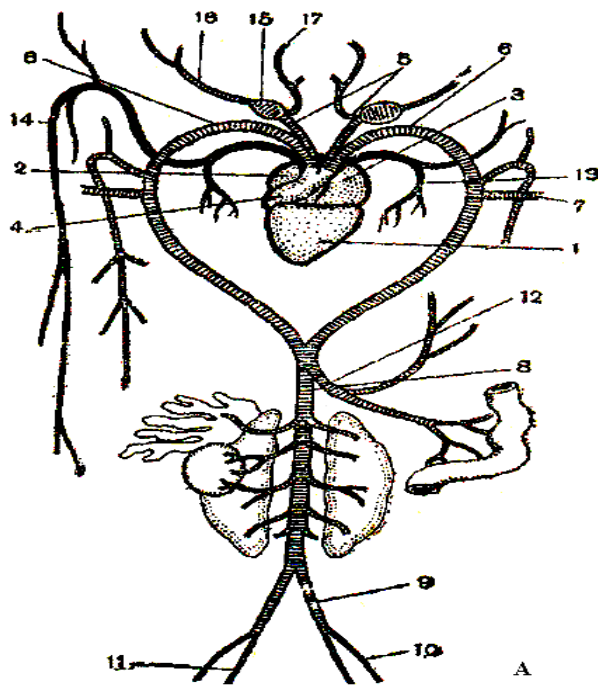


**8.7-rasm. Baqa bosh miyasi ko`rinishi (A-yuqoridan, B-pastdan).** 1-oldingi miya yarimshari, 2-hidlov bo`lagi, 3-hidlov nervi 4-oraliq miya, 5-ko`ruv xiazmasi, 6-voronka, 7-gipofiz, 8-o`rta miyaning ko`rish pallasi, 9-miyacha, 10-uzunchoq miya, 11-orqa miya.





**Urg'och baqada ichki organlarning joylashishi:** 1-yurak, 2-o`pka, 3-jigarning chap pallasi, 4-jigarning o`ng pallasi, 5-o`t pufagi, 6-oshqozon, 7-oshqozon osti bezi, 8-o`n ikki barmoqli ichak, 9-ingichka ichak, 10-to`g`ri ichak, 11-taloq, 12-kloaka, 13-siydik pufagi, 14-siydik pufagi teshigi, 15-buyrak, 16-siydik yo`li, 17-siydik yo`lining kloakaga juft teshigi, 18-o`ng tuxumdon(chap tuxumdon olib tashlangan), 19-yog` tanacha, 20-o`ng tuxumdon yo`li, 21-chap tuxum yo`li, 22-tuxum yo`lining bachadon qismi, 23-tuxum yo`lining kloakaga ochiladigan teshigi, 24-orqa aorta, 25-orqa kovak vena, 26-umumiy uyqu arteriyasi, 27- aortaning chap yoyi, 28-o`pka-teri arteriyasi.

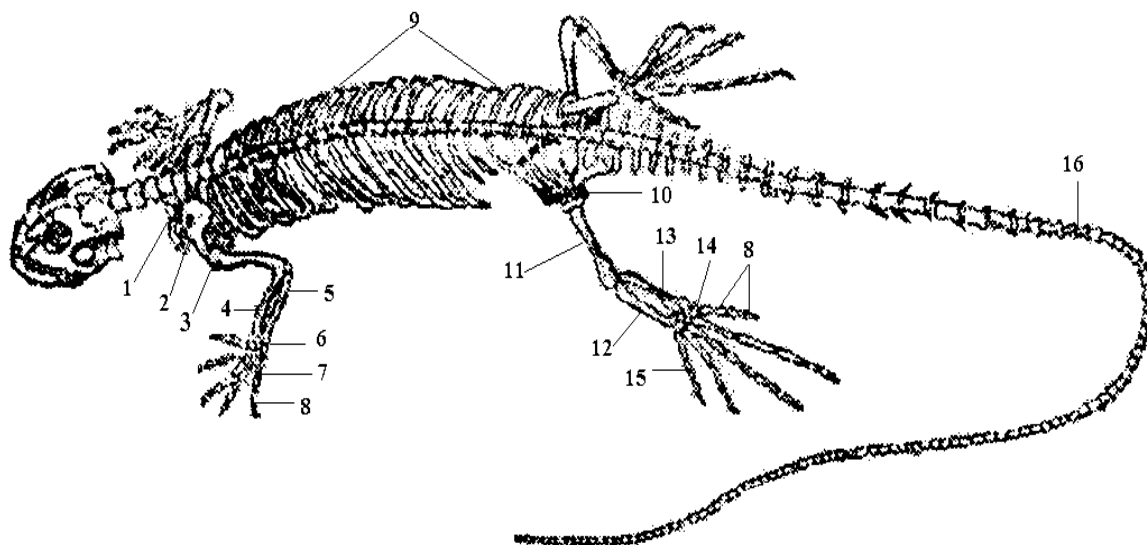


### **Baqaning arterial (A) va venoz (B) sistemasi:**

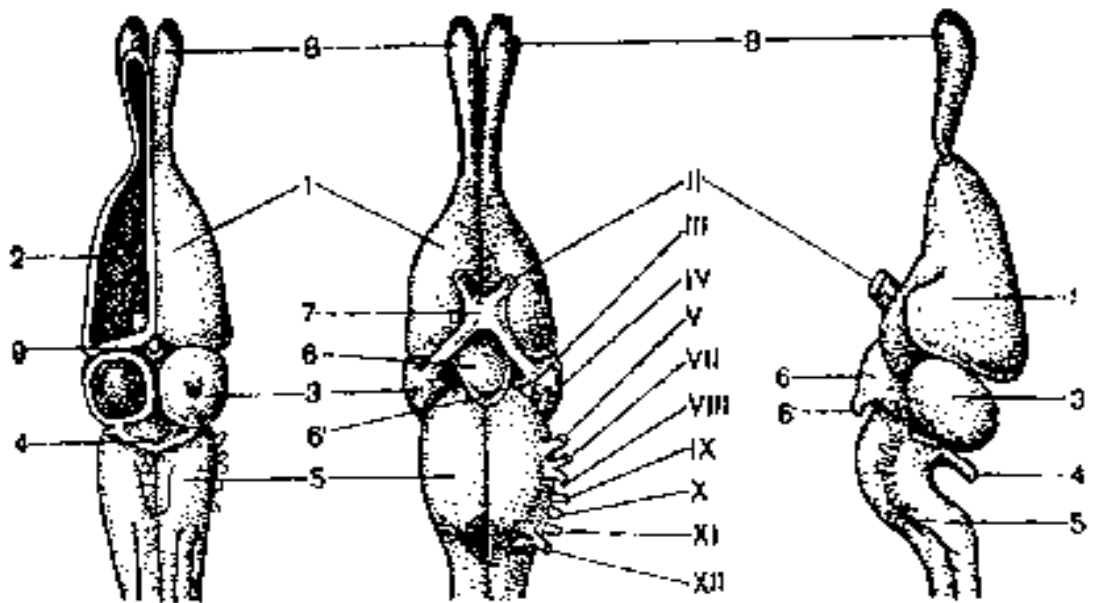
**A.** 1-yurak qorinchasi, 2-o`ng yurak bo`lmasi, 3-chap yurak bo`lmasi, 4-arterial konus, 5-umumiy uyqu arteriyasi, 6-aorta yoylari sistemasi, 7-o`mrov osti arteriyasi, 8-orqa aorta, 9-umumiy yonbosh arteriyasi, 10-son arteriyasi, 11-quymich arteriyasi, 12-ichaktutqich arteriyasi, 13-o`pka arteriyasi, 14-teri arteriyasi, 15-uyqu bezi, 16-tashqi uyqu arteriyasi, 17-ichki uyqu arteriyasi.

**B.** 1-venoz sinusi, 2-tashqi bo`yinturuq vena, 3-ichki bo`yinturuq vena, 4-terining katta venasi, 5-o`mrov osti vena, 6-oldingi kovak vena, 7-keyingi kovak vena, 8-son venasi, 9-quymich venasi, 10-yanbosh venasi, 11-buyrak qopqa venasi, 12-ichak osti venasi, 13-jigar qopqa venasi, 14-jigar venasi, 15-qorin venasi, 16-o`pka venasi, 17-buyraklar.

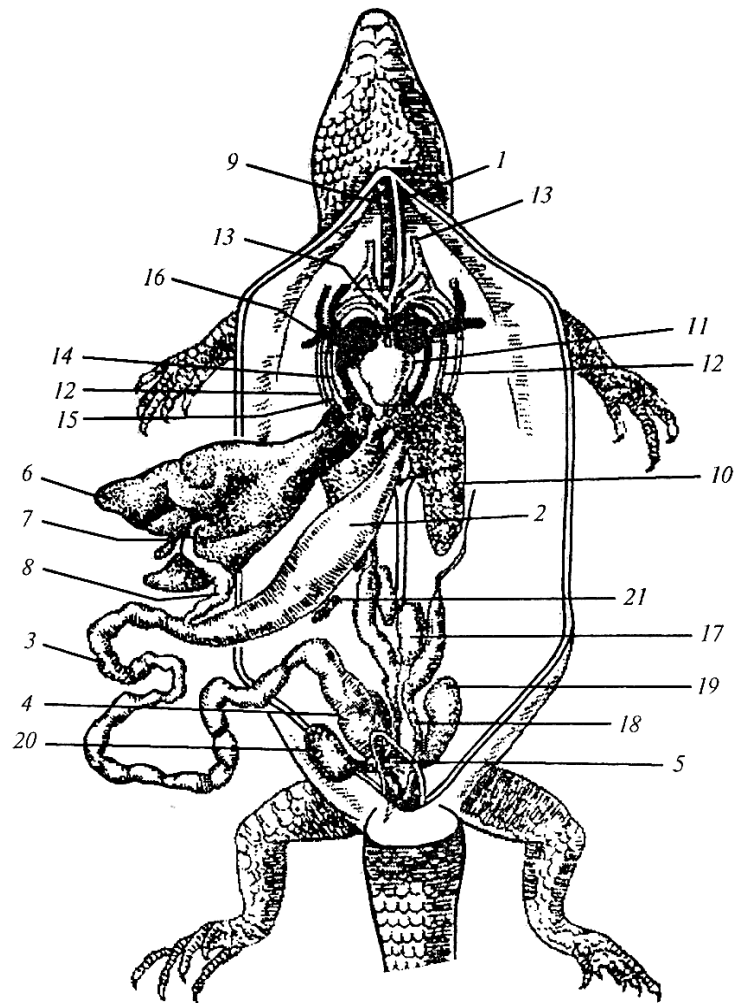
## SUDRALIB YURUVCHILAR TARQATMA MATERIAL



**Kaltakesak skeleti:** 1-o`mrov suyagi, 2-kurak suyagi, 3-yelka suyagi, 4-bilak suyagi, 5-tirsak suyagi, 6-bilaguzuk, 7-kaft suyaklari, 8-barmoq falangalari, 9-ovurg`alari, 10-chanoq kamari, 11-son suyagi, 12-katta boldir suyagi, 13-kichik boldir suyagi, 14-tovon suyagi, 15-oyoq kaft suyaklari, 16-dum umurtqalari.

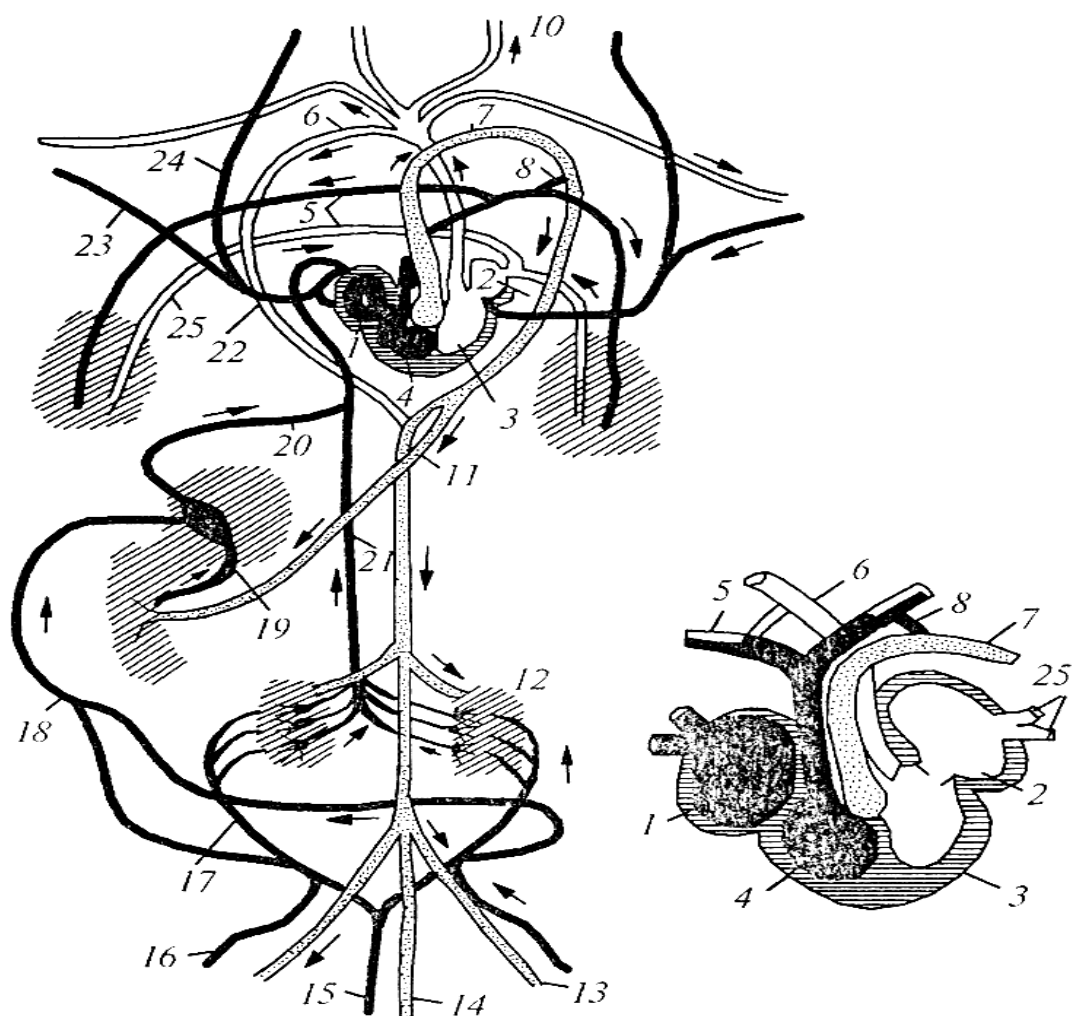


**Kaltakesakning bosh miyasi: A-tepa tomondan; B-ostki tomondan; V-  
yon tomondan ko`rinishi:** 1-oldingi miya yarimsharlari, 2-yo`l-yo`l  
(targ`il)tanacha, 3-o`rta miya, 4-miyacha, 5-uzunchoq miya, 6-voronka, 6-gipofiz,  
7-xiazma, 8-hidlov bo`laklari, 9-epifiz, II-XII -bosh miya nervlari.



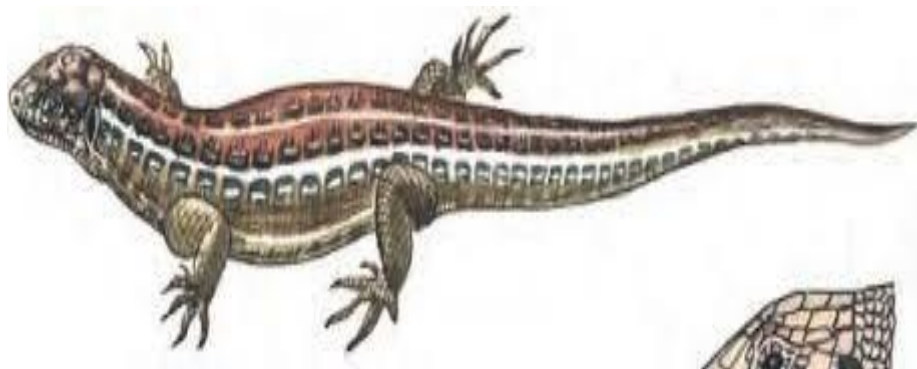
**Kaltakesakning ichki tuzilishi.** 1-qizilo`ngach, 2-oshqozon, 3-ingichka ichak, 4-yo`g`on ichak, 5-kloaka, 6-jigar, 7-o`t pufagi, 8-oshqazon osti pufagi, 9-traxeya, 10-chap o`pka, 11-yurak, 12-aorta yoyi, 13-uyqu arteriyasi, 14-o`pka arteriyasi, 15-keyingi kovak vena, 16-vena sinusi, 17-urug`don, 18-urug`yo`li, 19-buyrak, 20-qovuq, 21-taloq.



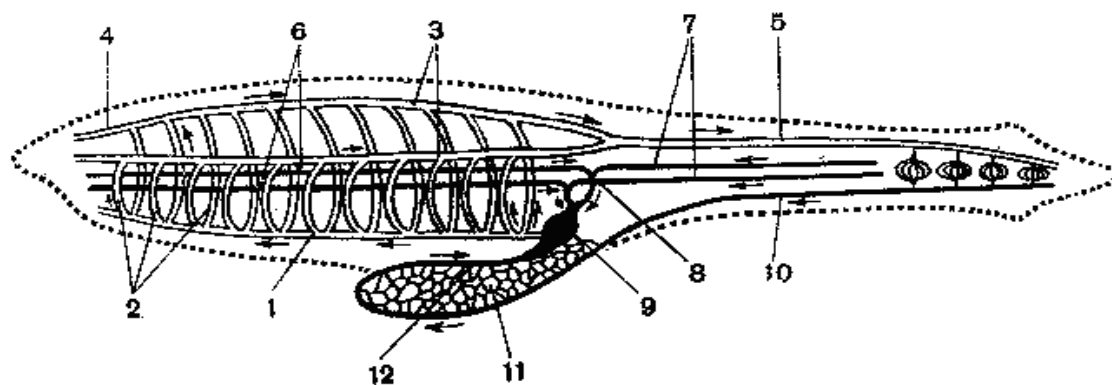


**12.2-rasm. Sudralib yuruvchilarning qon aylanish sistemasi sxemasi va yuragining tuzilishi:** 1-o`ng yurak bo`lmasi, 2- chap yurak bo`lmasi, 3-yurak qorinchasining chap tomoni, 4- yurak qorinchasining o`ng tomoni, 5- o`ng o`pka arteriyasi, 6-o`ng aorta yoyi, 7-chap aorta yoyi, 8-chap botallov,9-chap o`mrov osti arteriyasi, 10-chap uyqu arteriyasi, 11-ichak arteriyasi,12-buyrak, 13-chap yonboshosti arteriyasi, 14-dum arteriyasi,15-dum venasi, 16-o`ng son venasi, 17-buyrakning o`ng qopqa venasi, 18-qorin venasi, 19-jigarning qopqa venasi, 20-jigar venasi, 21-keyingi kovak vena, 22- oldingi kovak vena, 23-o`ng o`mrov osti vena, 24-o`ng buyuntiriq vena, 25-o`ng o`pka venasi.

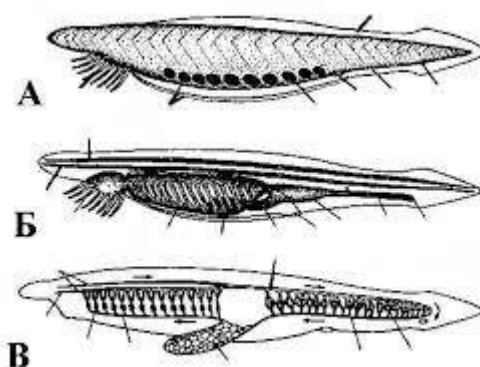




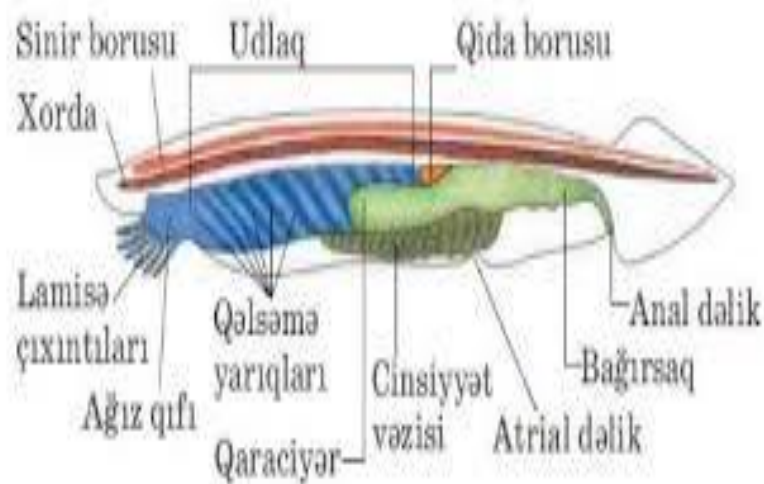
## XORDABOSHLILAR



**Lansetnikning qon aylanish sistemasi:** 1-qorin aortasi, 2-olib ketuvchi jabra arteriyalari, 3-aorta ildizi, 4-uyqu arteriyasi, 5-orqa aortasi, 6-oldingi kardinal vena, 7-orqa kardinal venasi, 8-kyuver oqimi, 9- venoz sinusi, 10-ichak osti venasi, 11-jigar qopqa venasi, 12-jigar venasi.



## Neştərçənin daxili quruluşu





**\*Neşterçenin daxili quruluşu**



Вентральный кров. от головной части тела по брюшным передним кардинальным венам, а от хвостовой части - по задним кардинальным

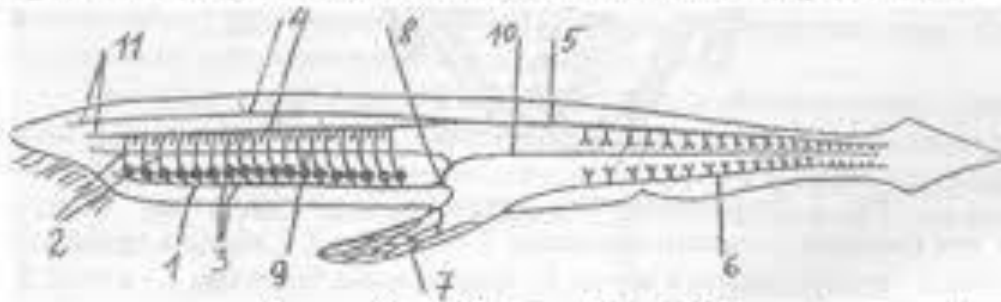
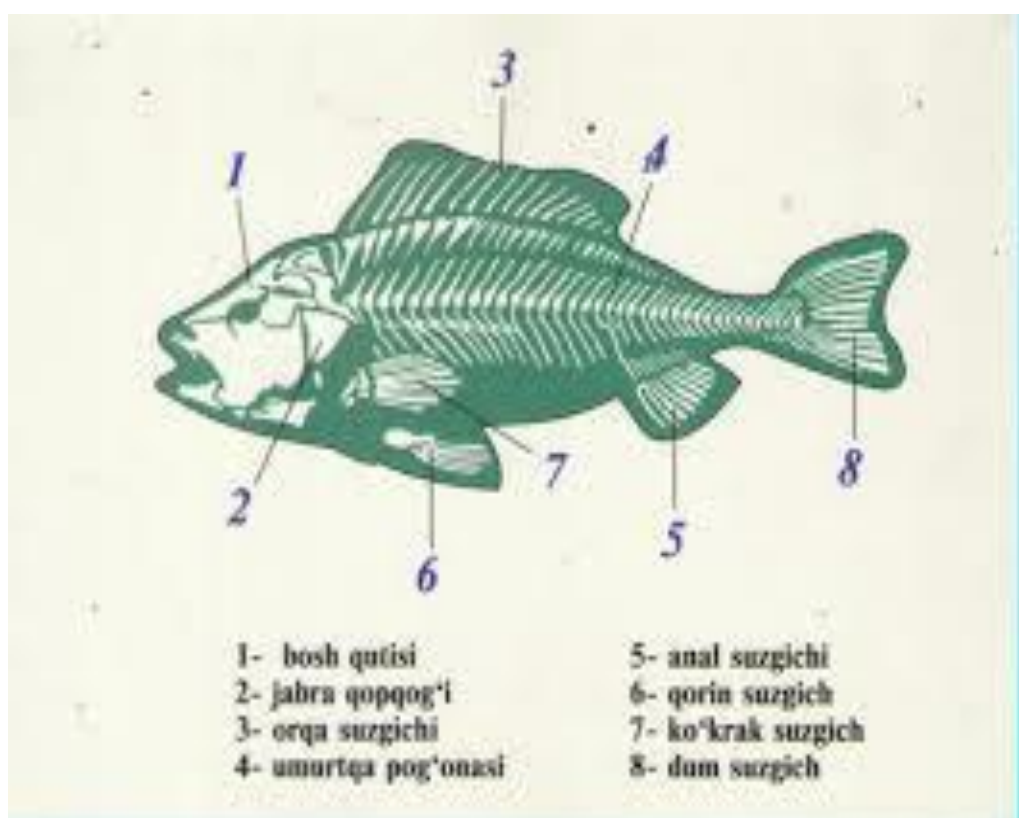
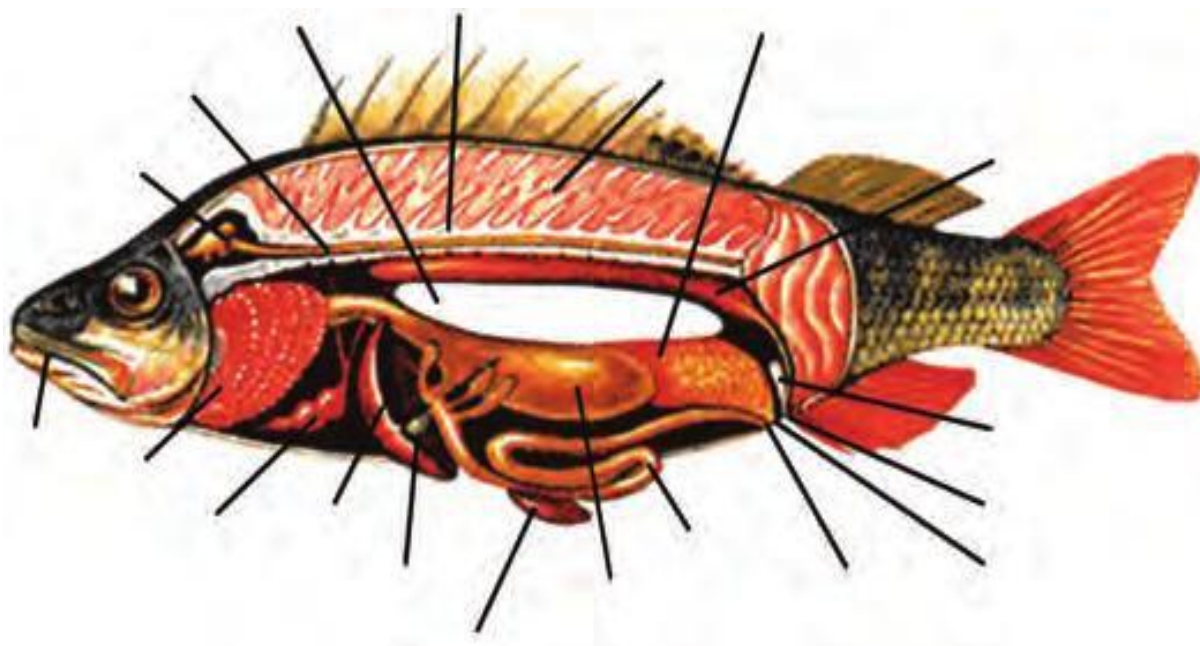


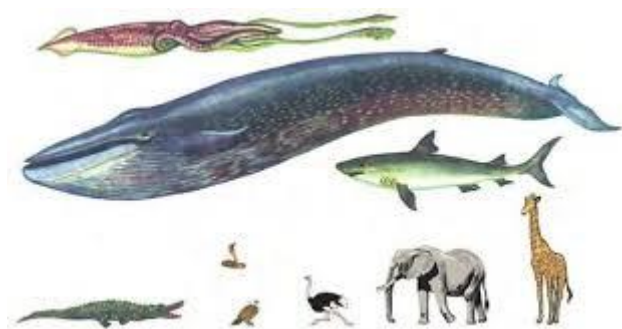
Рис. 3. Система кровообращения лампачи

1 - жаберная или брюшная аорта, 2 - жаберные артерии, 3 - жаберные сетки, 4 - передняя спинная аорта, 5 - задняя спинная аорта, 6 - печеночная вена, 7 - почечная вена, 8 - кишечный проток, 9 - передняя кардинальная вена левой стороны, 10 - задняя кардинальная вена левой стороны, 11 - спинные артерии

**SUYAKLI BALIQLAR**



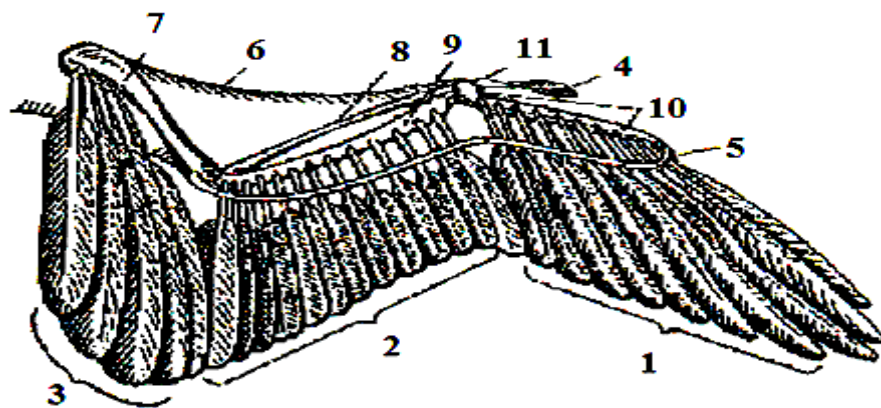




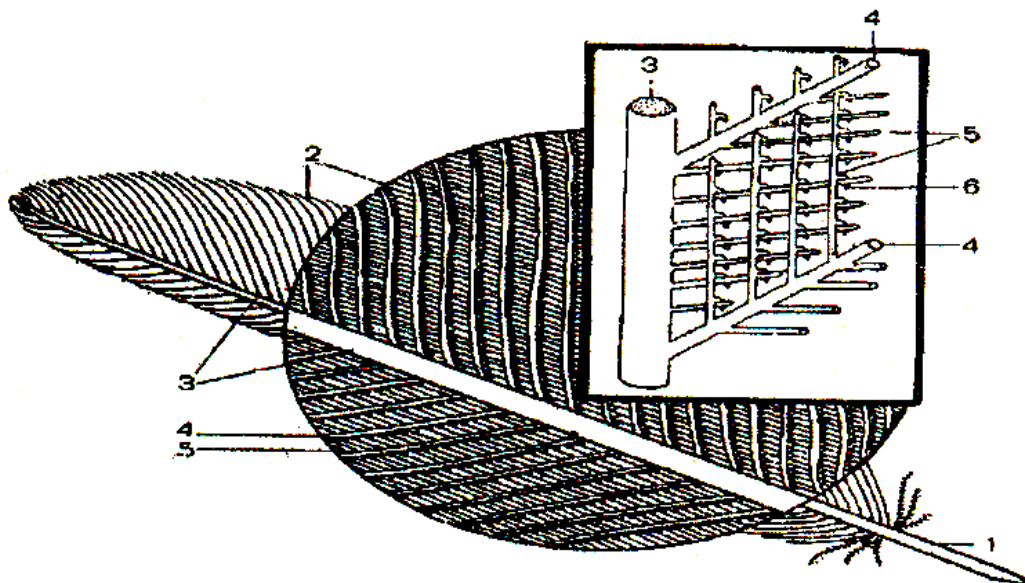
Umurtqalilar skeletining tuzilishi (sxemasi):

I – baliq; II – anfibiya; III – sauropsid yuruvchi; IV –  
sot emizuvchi.

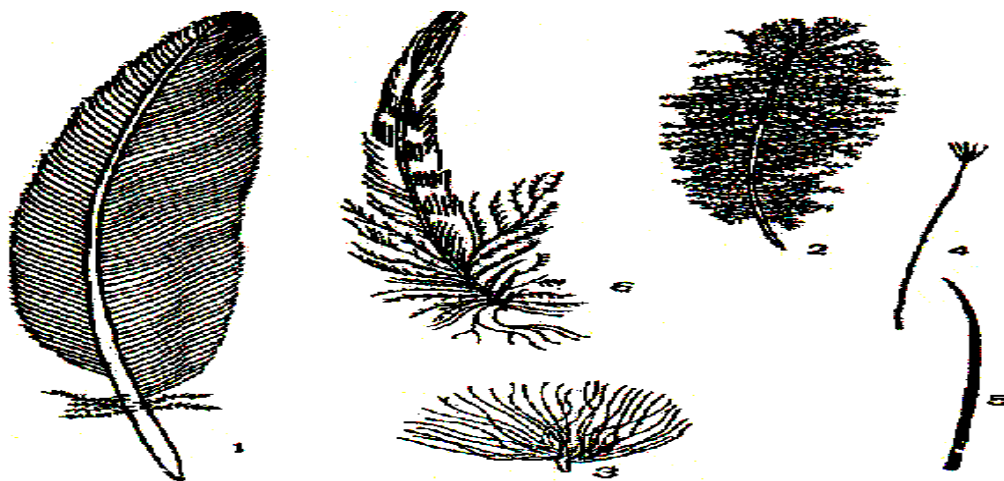
## QUSHLAR SINFI



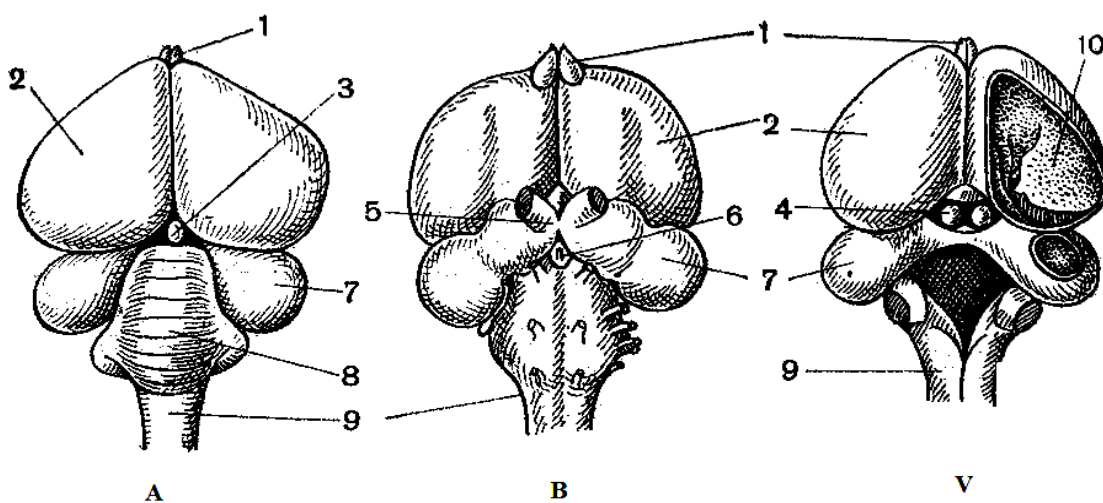
**Qush qanotining tuzilishi:** 1-birinchi tartib qoquv patlari, 2-ikkinchi tartib qoquv patlari, 3-uchinchi tartib qoquv patlari, 4 - qanotcha, 5 - 6 - terisi, 7-yelka suyagi, 8-bilak suyagi, 9-tirsak suyagi, 10-ikkinchi barmoq, 11 - birinchi barmoq.



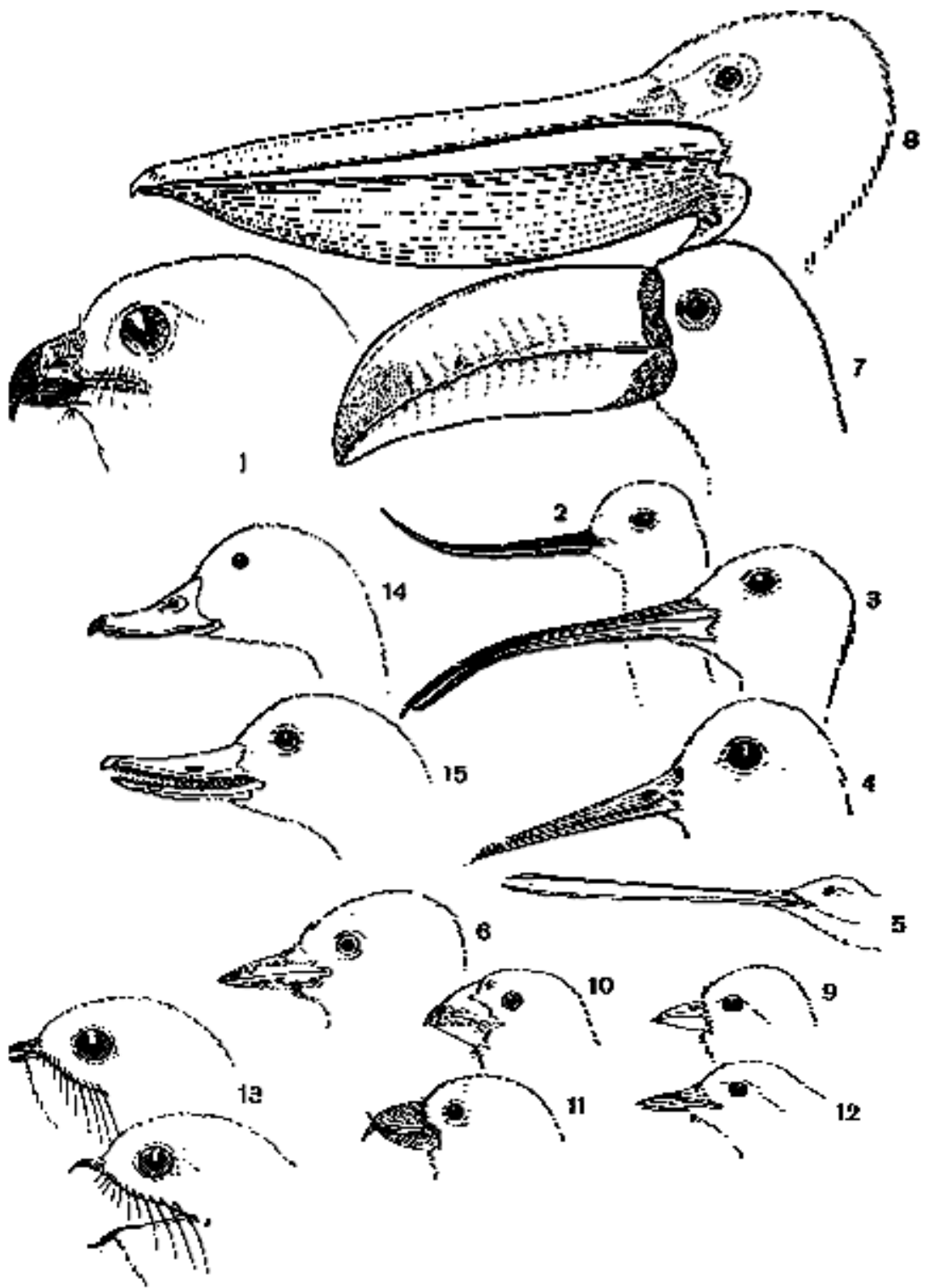
**Qoquv patining tuzilishi:** 1-pat o`qi, 2-pat yelpig`ichi, 3-pat tanasi, 4-birinchi tartibdagi tilachalar, 5-ikkinchi tartibdagi tolachalar, 6-ilmoqchalar.



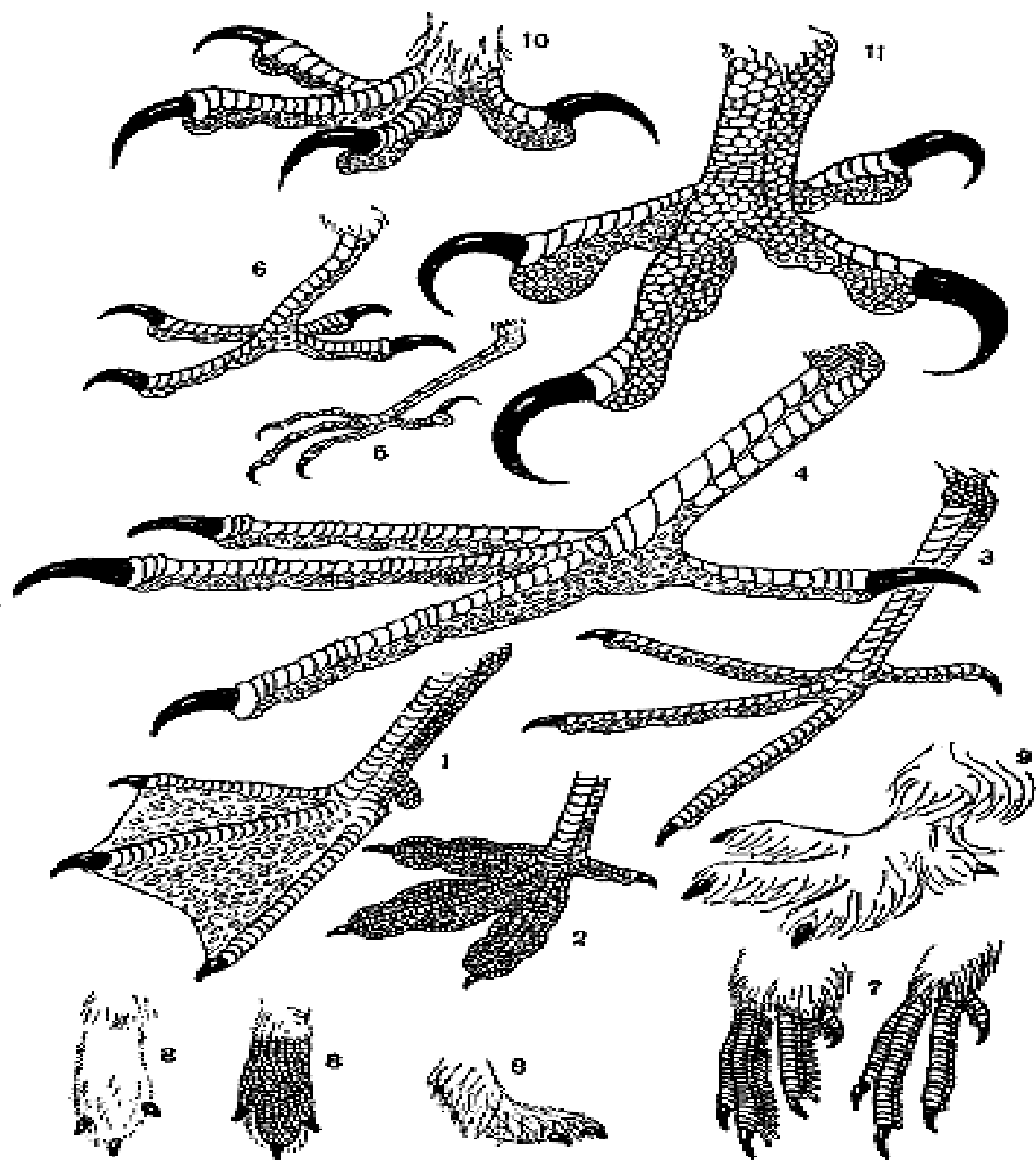
**Qushlar pat va par tiplari:** 1-kontur pat, 2-par-pat, 3-haqiqiy par, 4-ipsimon pat, 5-qilcha, 6-par-pat.



**Kaptarning bosh miyasi:** A- ustki tomondan, B-pastki tomondan, V-miya qorinchasi ochilib va miyachasi olib tashlangan holda ko`rinishi: 1-oldingi miyaning hidlov bo`laklari, 2- oldingi miya yarimsharlari, 3-epifiz, 4-oraliq miyaning ko`ruv bo`rtmalari, 5-xiazma, 6-gipofiz voronkasi bilan, 7-o`rta miyaning ko`ruv pallalari, 8-miyacha, 9-uzunchoq miya, 10-targ`il tana.

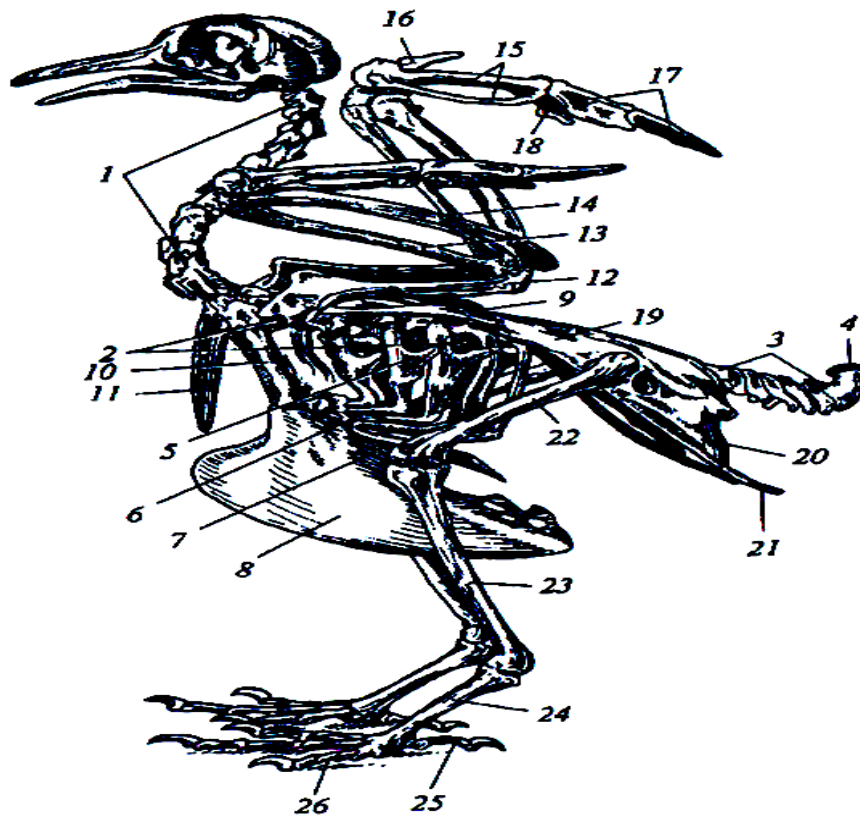


**Qushlar tumshug'i xilma-xilligi.** 1-konyuka (qirg'iy), 2-balchiqchi, 3-baliqchi, 4-o'rmon loyxo'ragi, 5-kolibri, 6-qizilishton, 7-tukan, 8-soqoqush, (9-11-donxo'rlar), 9-qiziltush, 10-boltatumshuq, 11-Archa qaychitumshug'i, (hashorotxo'rlar), 12-lenotkalar, 13-tentakqush (suvda suzuvchilar), 14-yovvoyi o'rdak, 15-o'rdak cherag.

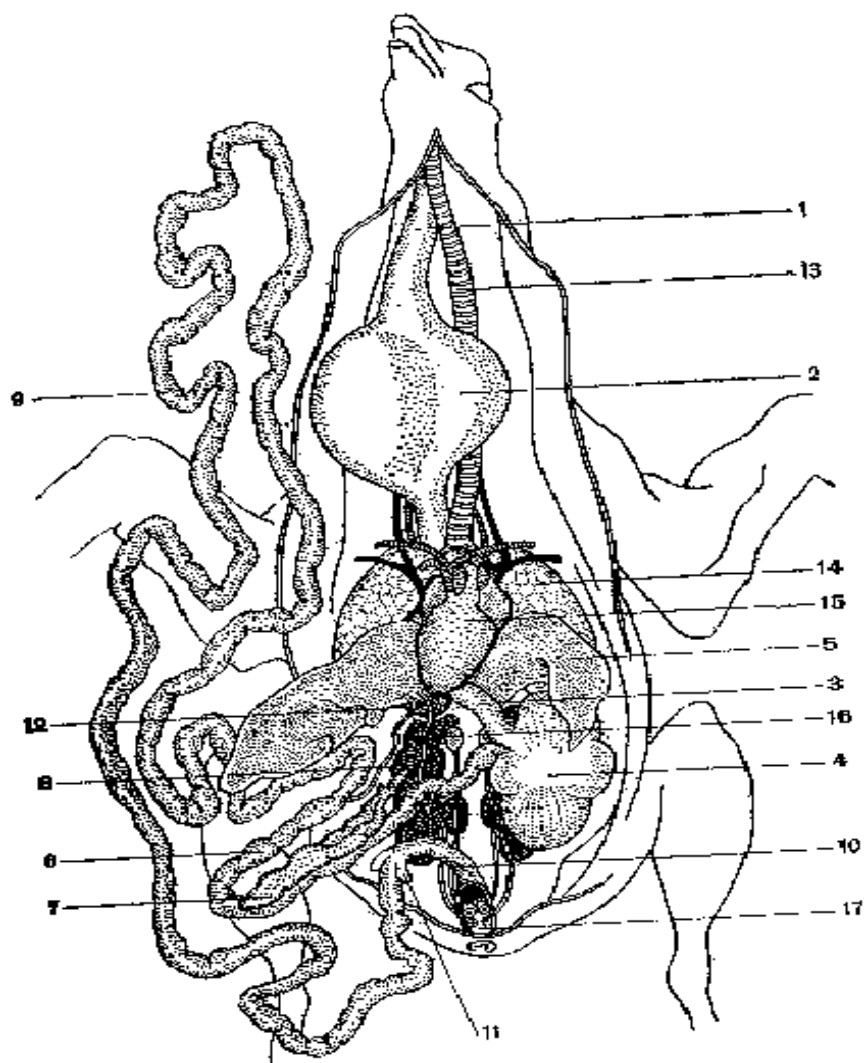


**Qushlar oyoqlarining xilma-xilligi.** 1-yovvoyi o`rdak, 2-qashqaldoq, (1-2-suvda suzuvchilar), 3-qamishzor to`qaychumchug`i, 4-qirg`ovul, (3-4-botqoqliklardagi o`simliklar orasida yashaydi), 5-katta chittak, 6-qizilishton, 7-qarchig`ay, (5-6-7-butasimon o`simliklar orasida yashaydi), 8-bulduruq, (8-cho`lda yashaydi), 9-oq kaklik(chil), (9-qorli mintaqalarda yashaydi), 10-kanyuka (qirg`iy), 11-skopa, (10-11-yirtqichlar).

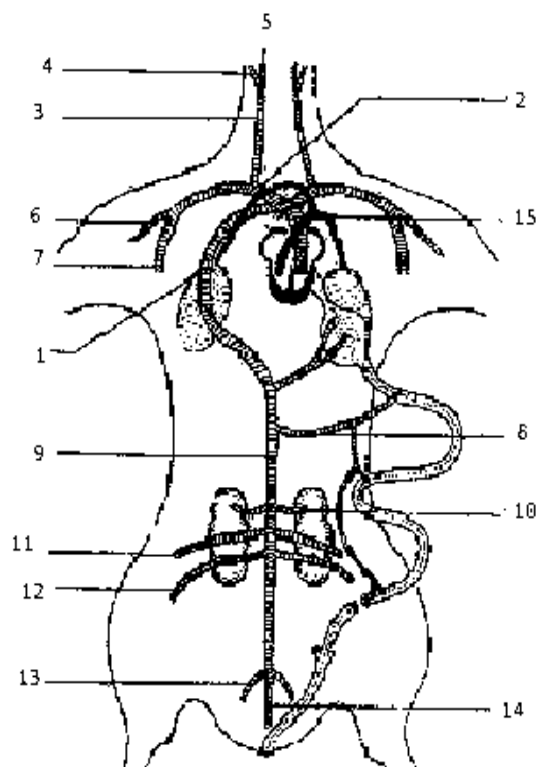




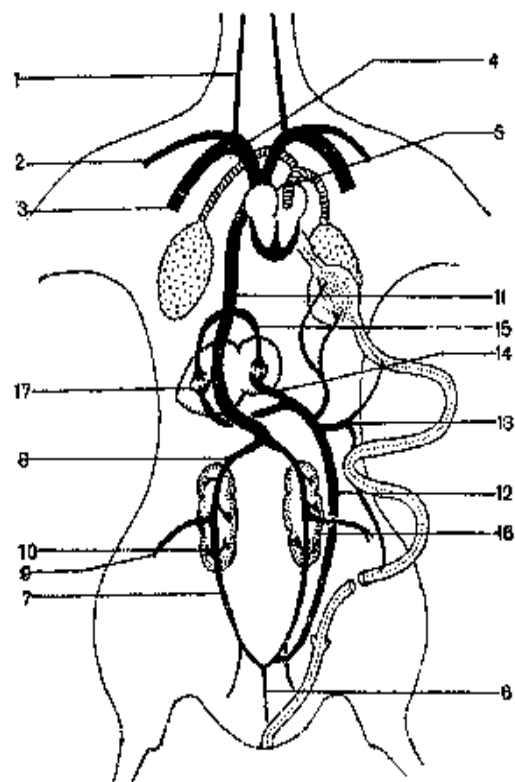
**Kaptarning skeleti:** 1-bo'yin umurtqalari, 2-ko'krak umurtqalari, 3-dum umurtqalari, 4-dum suyagi (pigostil), 5-qovurg'aning ilmoqchasimon o'simtali elka qismi, 6-qovurg'aning qorin qismi, 7-to'sh suyagi, 8-ko'krak toj suyagi, 9-ko'krak suyagi, 10-korokoid, 11-ayri suyagi, 12-elka suyagi, 13-bilak suyagi, 14-tirsak suyagi, 15-bilaguzuk-kaft suyagi, 16-I barmoq, 17-II barmoq, 18-III barmoq, 19-yonbosh suyak, 20-qo'ymich suyagi, 21-qov suyagi, 22-son suyagi, 23-boldir suyagi, 24-ilik suyagi, 25-I barmoq, 26-IV barmoq.



**Kaptar ovqat hazim qilish sistemasining tuzilishi:** 1-qizilo`ngach, 2-jig`ildon, 3-bezli oshqozon, 4-muskulli oshqozon, 5-jigar, 6-o`n ikki barmoqli ichak, 7-oshqozon osti bezi, 8-o`t yo`llari, 9-ingichka ichak, 10-yo`g`on ichak, 11-ko`r ichagi, 12-taloq, 13-traxeya, 14-o`pkasi, 15-yuragi, 16-buyragi, 17-kloaka.



**A**

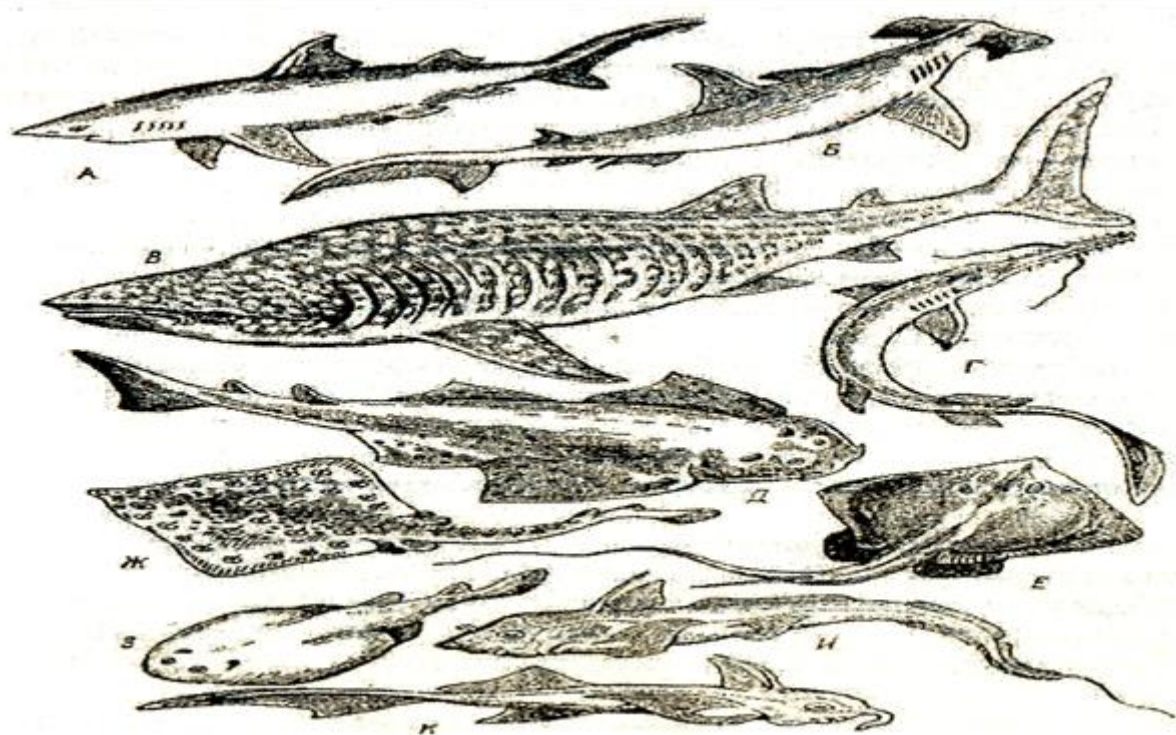
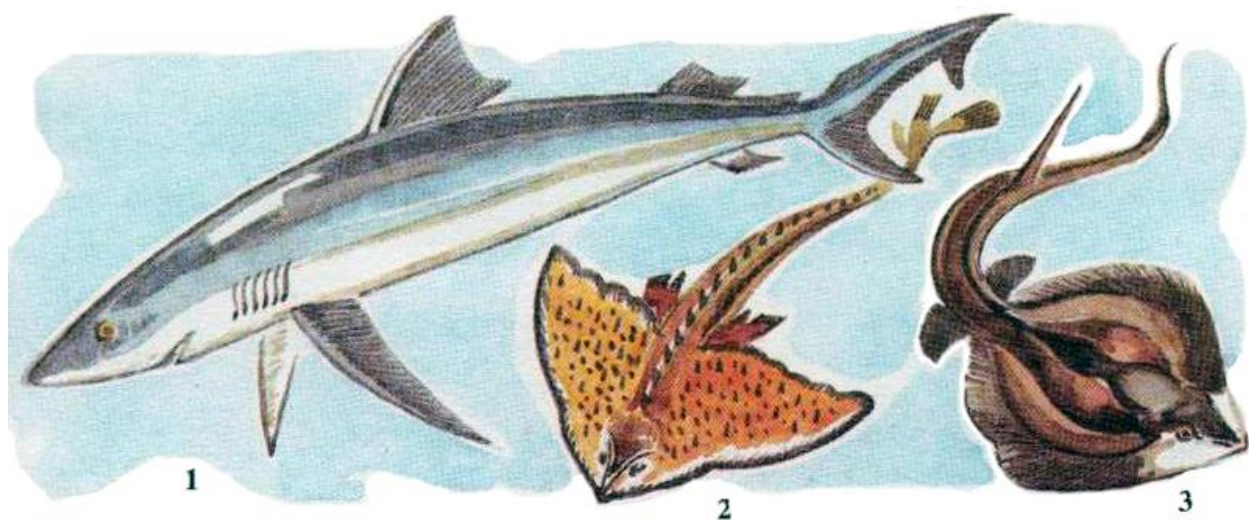


**B**

**Kaptarning arteria va vena qon aylanish tizimi:**

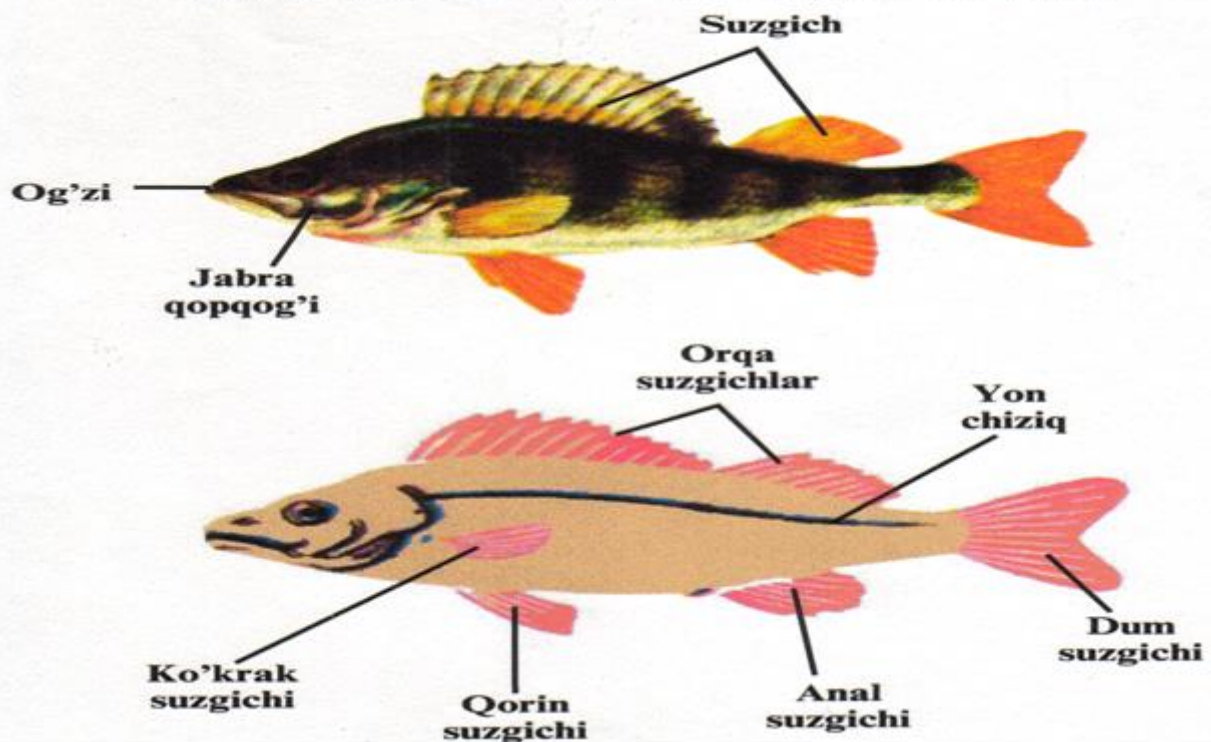
**A.** 1-aortaning o'ng yoyi, 2-o'ng nomsiz arteriya, 3-o'ng umumiy uyqu arteriyasi, 4-tashqi uyqu arteriyasi, 5-ichki uyqu arteriyasi, 6-o'mrov osti arteriyasi, 7-o'ng ko'krak arteriyasi, 8-ichak arteriyasi, 9-orqa aorta, 10-chap buyrak arteriyasi, 11-o'ng son arteriyasi, 12-o'ng quymich arteriyasi, 13-o'ng yonbosh arteriyasi, 14-dum arteriyasi, 15-o'pka arteriyalari.

**B.** 1-o'ng bo'yintirliq vena, 2-o'ng o'mrov osti venasi, 3-o'ng ko'krak vena, 4-o'ng oldingi kovak vena, 5-o'pka vena, 6-dum vena, 7-o'ng buyrak qopqa vena, 8-o'ng buyrak vena, 9-o'ng son vena, 10-o'ng yonbosh vena, 11-keyingi kovak vena, 12-ichak tutgich venasi, 13-ichak osti venasi, 14-jigar qopqa venasi, 15-chap jigar venasi, 16-chap buyrak, 17-jigar

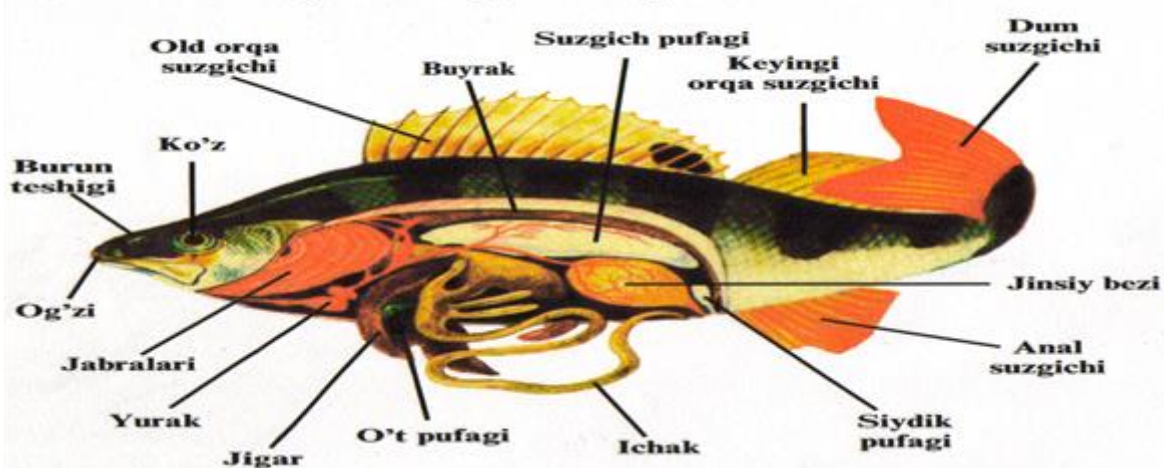




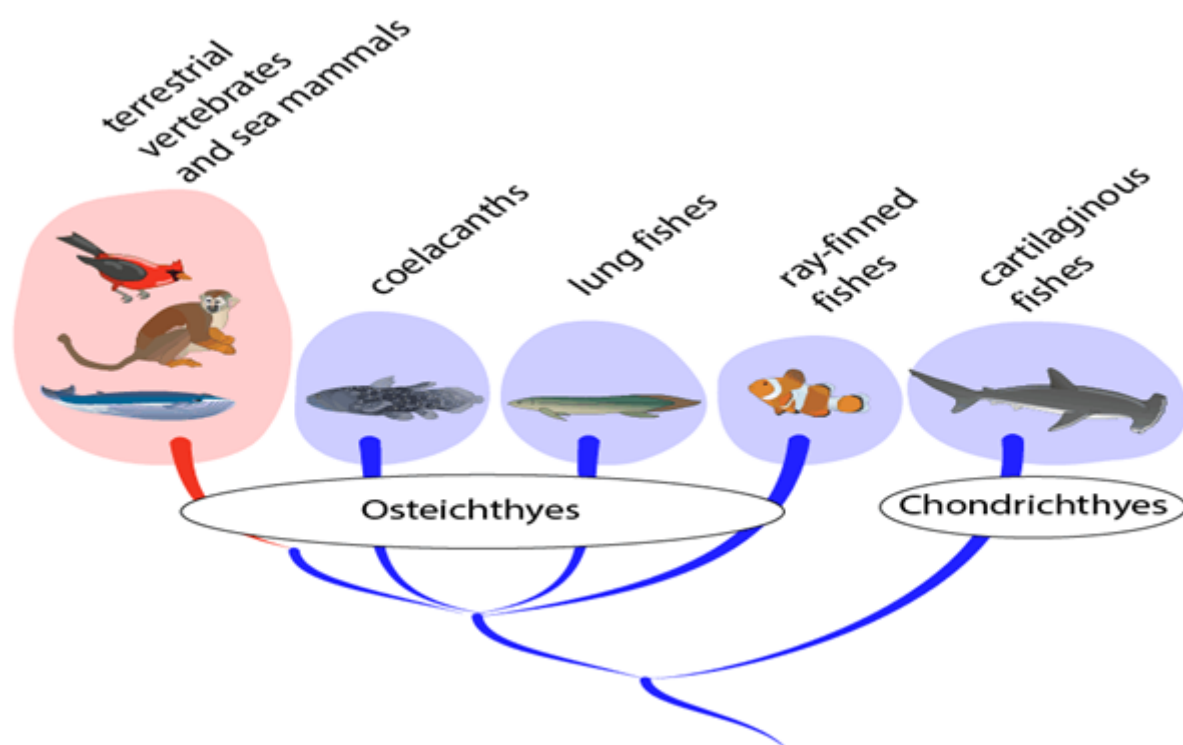
## Daryo olabug'asining tashqi tuzilishi



## Daryo olabug'asining ichki tuzilishi







## Baqa

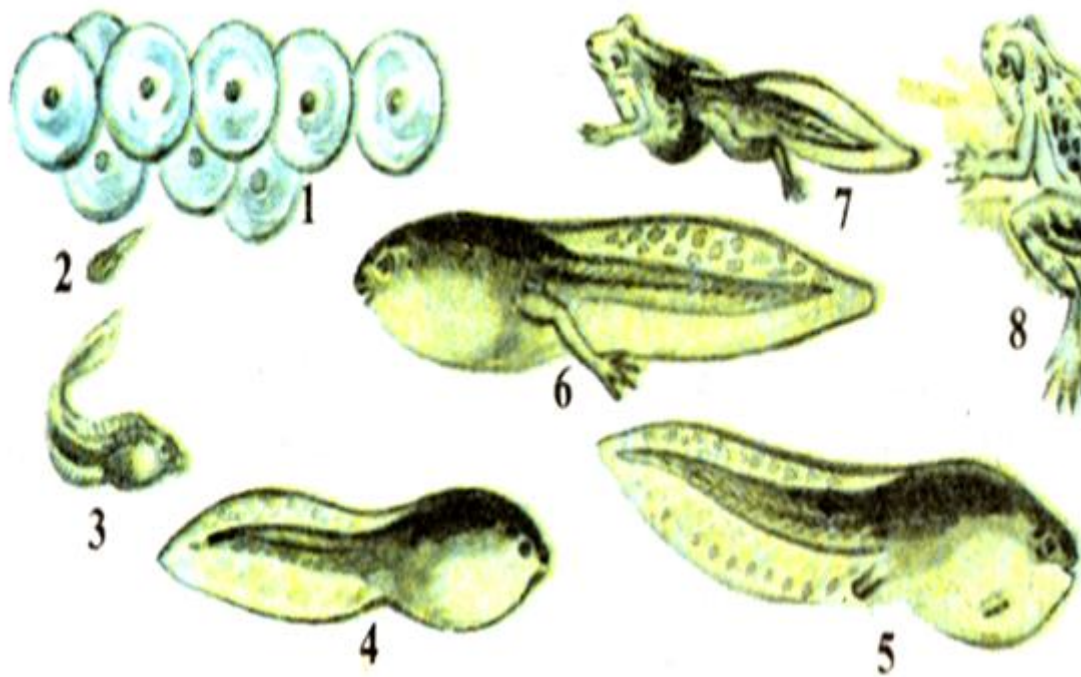
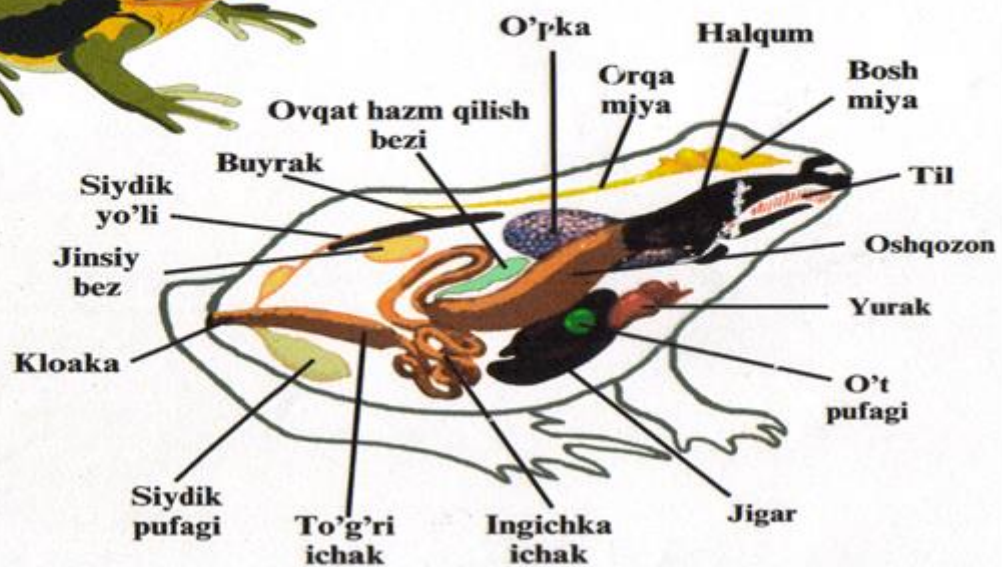
A

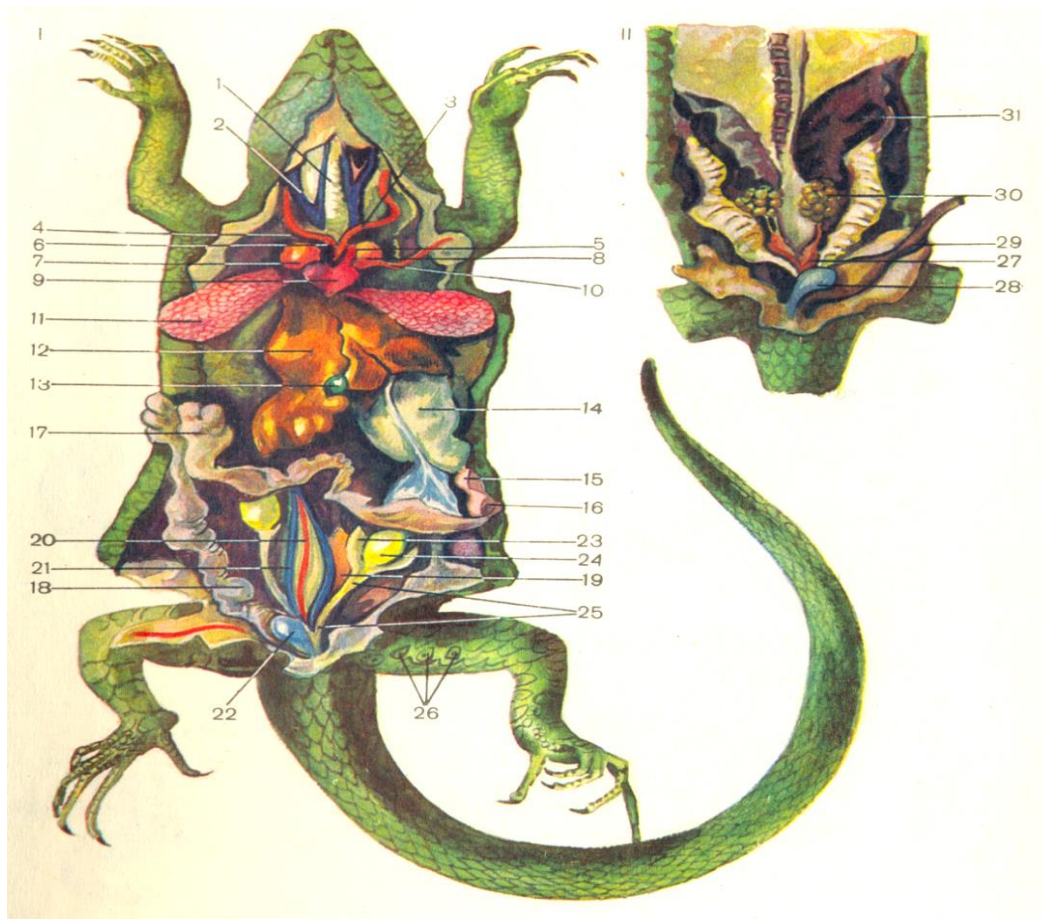


A. Baqaning tashqi tuzilishi

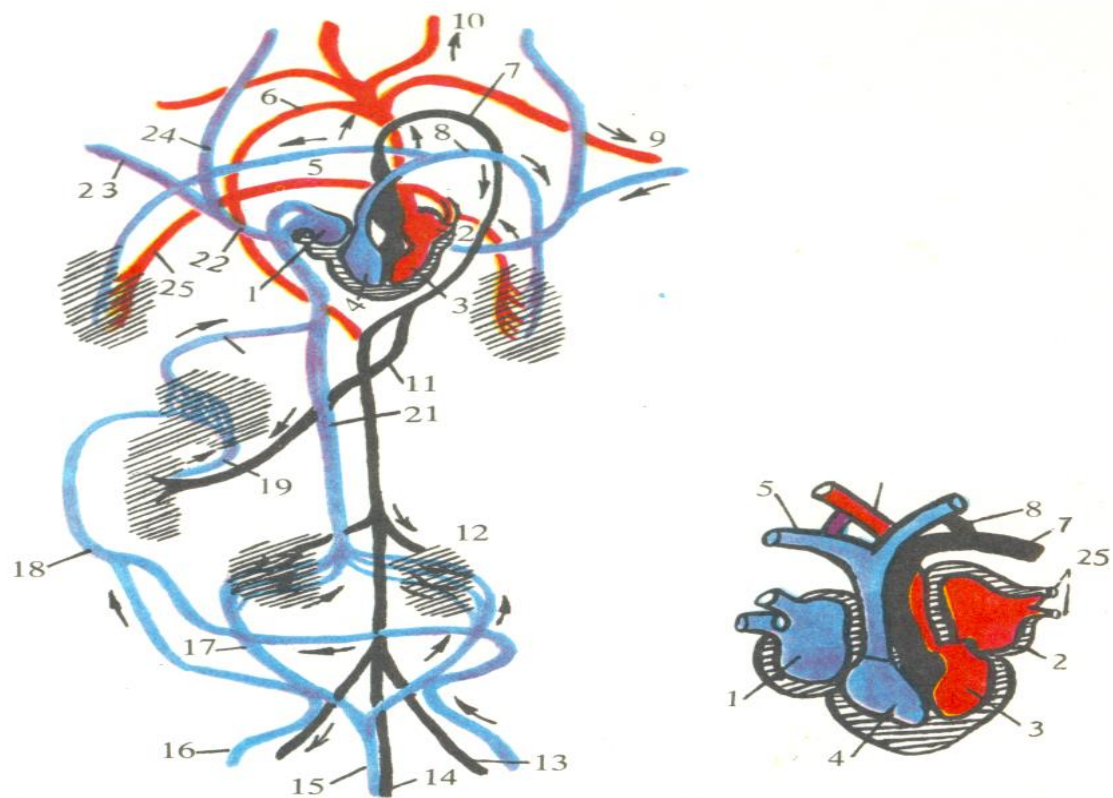
B. Baqaning ichki a'zolari

B





**Ichi yorilgan kaltakesak: A-erkagi ; B-urg`ochisi; 1-tashqi**  
 bo`yinturuq vena, 2-ichki bo`yinturuq vena, 3-chap uyqu arteriyasi, 4-o`ng uyqu arteriyasi, 5-chap aorta yoyi, 6-o`ng aorta yoyi, 7-o`ng yurak bo`lmasi, 8-chap yurak bo`lmasi, 9-yurak qorinchasi, 10-chap o`mrovosti arteriyasi, 11-o`pka, 12-jigar, 13-o`t pufagi, 14-oshqozonosti bezi, 16-o`n ikki barmoqli ichak, 17-yo`g`on ichak, 18,29-to`g`ri ichak, 19,27-bo`yrak, 20-orqa aorta, 21-bo`yrakdan chiqquvchi vena, 22,28-siydik pufagi, 23-urug`don ortig`i, 24-urug`don, 25-urug`yo`li, 26-son teshiklari, 30-tuxumdon, 31-tuxum yo`li.



**Epchil kaltakesakning qon aylanish sxemasi.** 1-o`ng yurak bo`lmachasi, 2-chap yurak bo`lmachasi, 3-chap yurak qorinchasi, 5-o`ng o`pka arteriyasi, 6-o`ng aorta yoyi, 7-chap aorta yoyi, 8-chap batollo oqimi, 9-chap o`mrov osti arteriyasi, 10-chap uyqu arteriyasi, 11-ichak arteriyasi, 12-buyrak, 13-chap yonbosh arteriyasi (pastki), 14-dum arteriyasi, 15-dum venasi, 16-o`ng son venasi, 17-buyrakning o`ng qopqa venasi, 18-qorin venasi, 19-jigarning qopqa venasi, 20-jigar venasi, 21-keyingi kavak vena, 22-oldingi o`ng kavak vena, 23-o`ng o`mrov osti venasi, 24-o`ng bo`yinturuq venasi, 25-o`ng o`pka venasi.

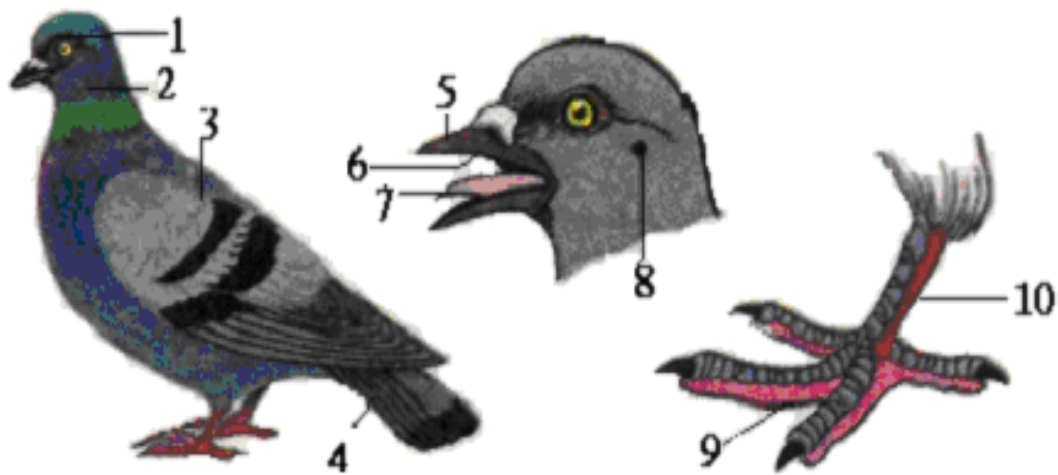




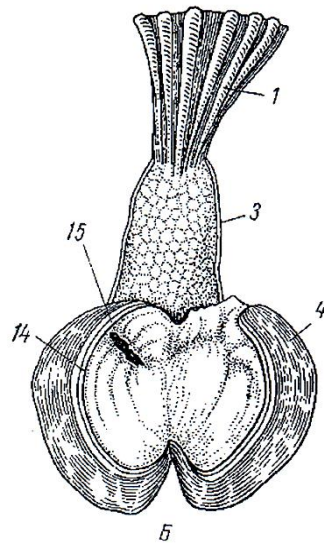
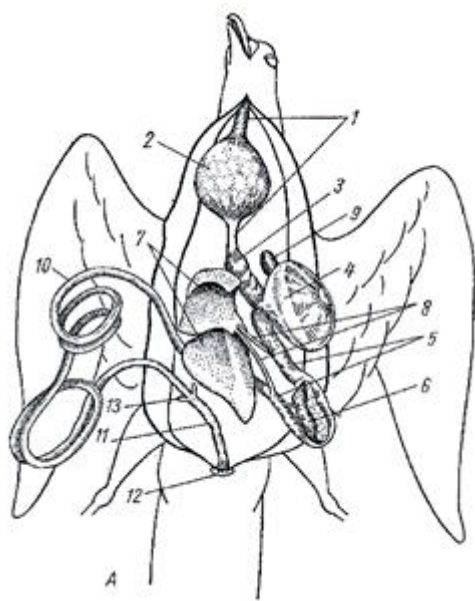
**Turli sudralib yuruvchilar sinfi vakillari:**

1-xitoy alligatori, 2-botqoqlik toshbaqasi, 3-ilon bo`yinli toshbaqa, 4-tirik tug`ar kaltakesak, 5-yashil kaltakesak, 6-zahartish, 7-uzun oyoq sink, 8-medyanka, 9-suv ilon, 10-kulvor ilon, 11-o`rti Osiyo kobrasi, 12-anakonda.





**Qushlarning tashqi tuzilishi:** 1-boshi, 2-bo'yni, 3- qanoti, 4 - dumi, 5 – burun teshigi, 6 - ustki tumshug'i, 7 - tili, 8 –quloq teshigi, 9 –barmoqlari, 10 - iligi.



**Kaptarning ovqat hazm qilish sistemasi sxemasi** A - umumiy ko'rinishi, B – yorilgan holdagi oshqozoni: 1-qizilo'ngach, 2-jig'ildon, 3-bezli oshqozon, 4– muskulli oshqozon, 5-o'n ikki barmoqli ichak, 6-oshqozon osti bezi, 7-jigar, 8-o't yo'li, 9-taloq, 10-ingichka ichak, 11-to'g'ri ichak, 12-kloaka, 13-ko'richaklari, 14-muskulli oshqozon kutikulasi, 15-o'n ikki barmoqli ichakka o'tish yo'li.

**Mavzuga doir prezentatsiya mavjud:**



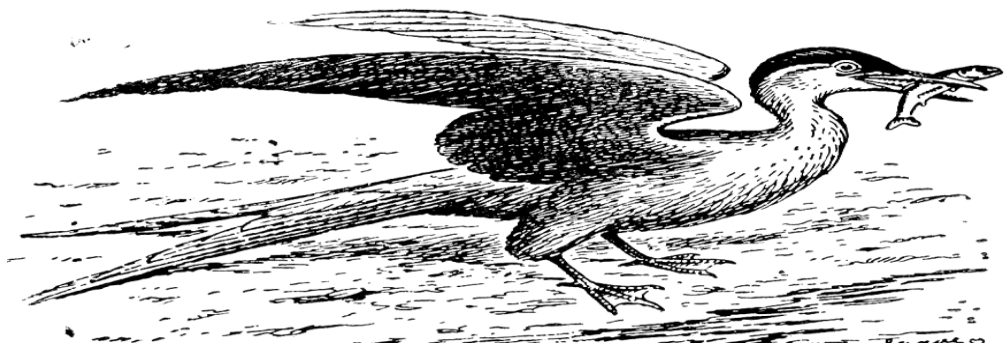
**Afrika tuyaqushlari**







**Ихтиорнис**



**O'rdakburunlar**



**Yexidna**





**Kenguru**

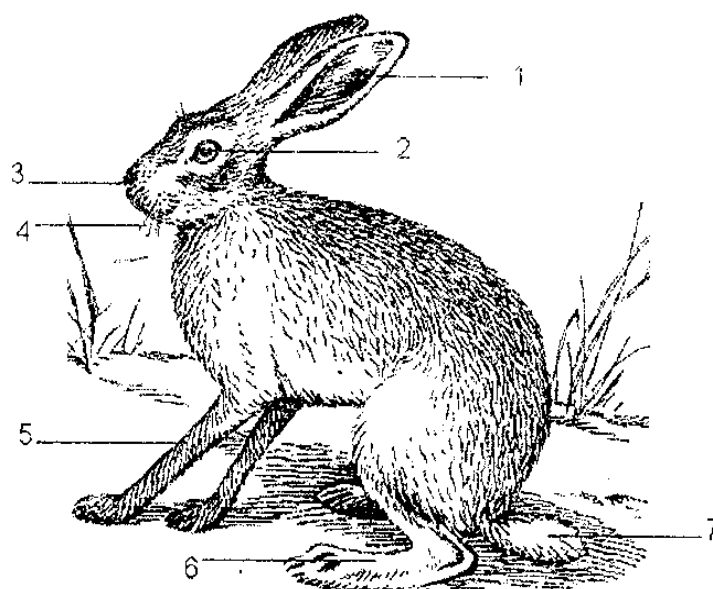


**Quloqdor tipratikan**



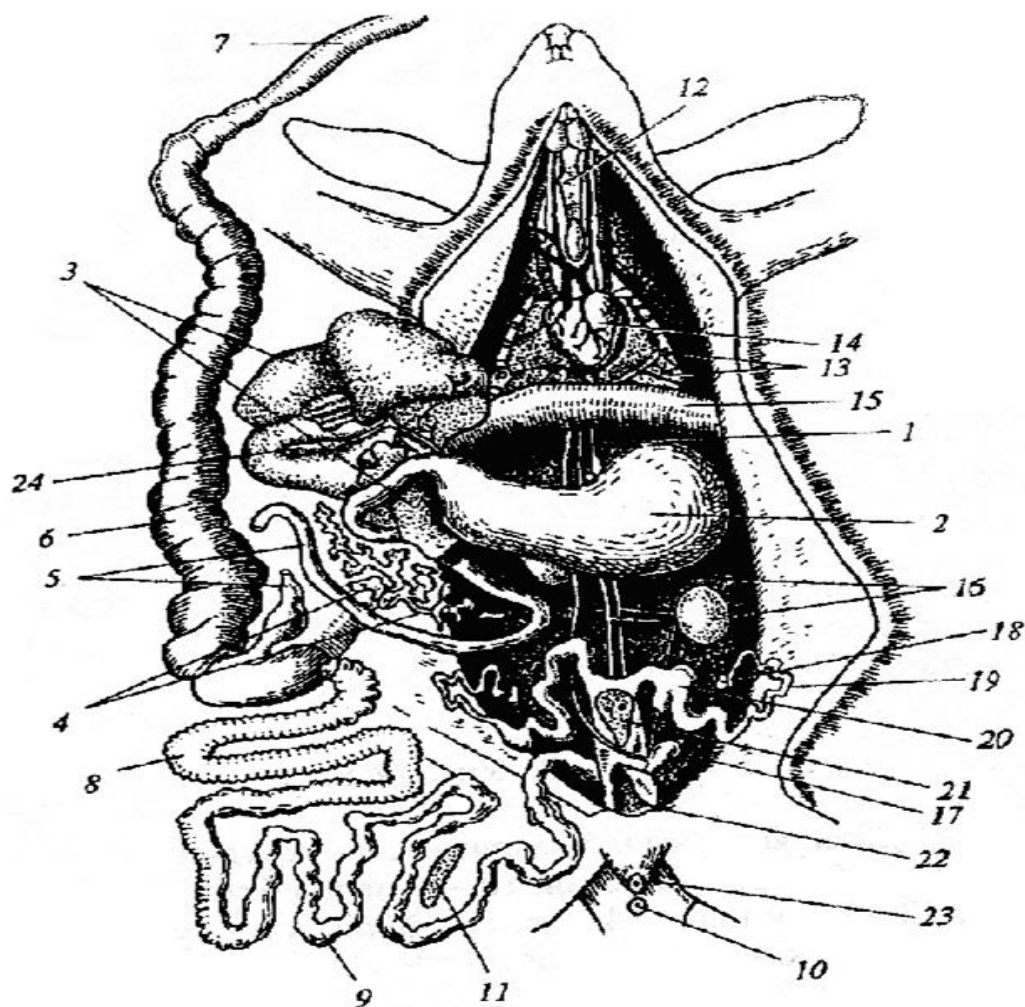


## Uchar tulki(it) yoki kalong



**Tolay tovushqonining tashqi tuzilishi:** 1-quloq suprasi, 2-kuz, 3-burun teshigi, 4-vibrissalar, 5-oldingi oyoq, 6- orqa oyoq, 7-dum.





**Quyov ichki organlarning umumiy tuzilishi:** 1-qizilo`ngach, 2-oshqozon, 3-jigar, 4-oshqozon osti bezi, 5-ingichka ichak, 6-ko`richak, 7-ko`richakning chivalchangsimon o`simtasi, 8-yo`g`on ichak, 9-to`g`ri ichak, 10-orqa chiqaruv teshigi, 11-taloq, 12-traxeya, 13-o`pka, 14-yurak, 15-diafragma, 16-buyrak, 17-siydik xaltasi, 18-tuxumdon, 19-fallopiev nayi, 20-bachadon, 21-qin, 22-siydik-tanosil sinusi, 23-siydik-tanosil teshigi, 24-o`t pufagi.