O. S. Miroshnikova V. P. Gorbatenko

WORKBOOK

for students specialty 211 Veterinary Medicine 212 Veterinary Hygiene, Sanitation and Expertise



MINISTRY OF EDUCATION AND SCIENCES OF UKRAINE

STATE BIOTECHNOLOGICAL UNIVERSITY

Department of Normal and Pathological Morphology

O. S. Miroshnikova V. P. Gorbatenko

Workbook

for independent work of students specialty 211 Veterinary Medicine 212 Veterinary hygiene, sanitation and expertise

Kharkiv, 2022

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SOMATIC SYSTEMS

Planes and directions in the animal body

Plane:

1 – middle sagittal (median)

2 - sagittal

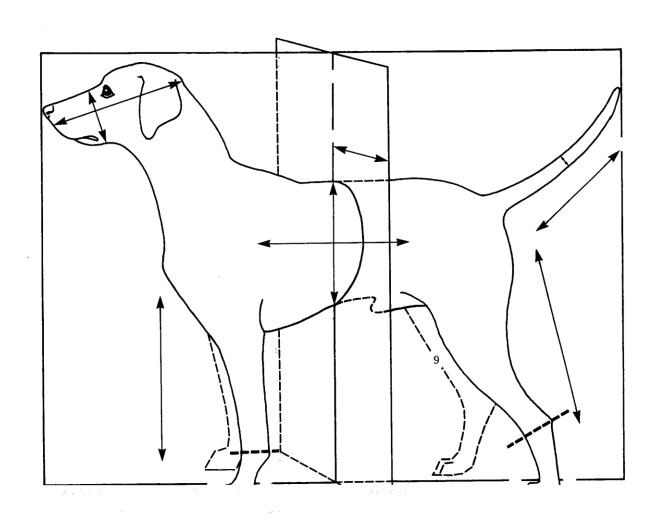
3 - frontal

4 - segmental

Direction:

5 – cranial	10 – medial
6 – caudal	11 – distal
7 – dorsal	12 – proximal
8 – ventral	13 – dorsal surface of the limbs
9 – lateral	14 – caudal surface of the limbs

Task: write the numbers in the picture.



Planes and directions in the animal body

Plane:

* – middle sagittal (median)

** – segmental

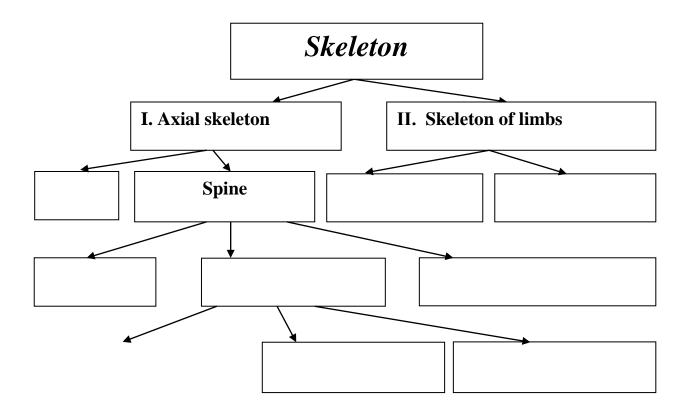
Direction:

1 – cranial	7 – lateral
2 – caudal	8 – medial
3-dorsal	9 – proximal
4 – ventral	10 – distal
5 – oral	11 – palmar (caudal direction on the palm)
6 – aboral	12 – plantar (caudal direction on the sole)

Task: write the numbers in the picture.

SKELETAL SYSTEM OSTEOLOGY

Division of the skeleton into sections

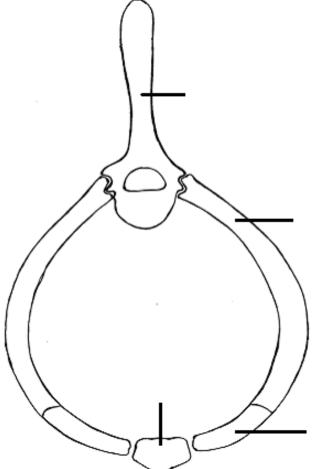


The spine is formed of the vertebrae:

>	
>	
>	

Task: complete the scheme and write name of vertebrae.

Axial skeleton



Complete bone segment

1 –	- thoracic vertebrae –
2 –	- pair of the ribs –
_	
	a – rib bone –
	b – rib cartilage
2	as amount of the stamping

3 – segment of the sternum

Task:

- 1. Write the numbers in the picture and add Latin terminology.
- 2. Write in number the complete bone segments of the skeleton for these animals:

hors	se	••••	•••	• • •	••	•••	•		• •	• •	
cattl	e	• • • •	•••	•••	• •	• • •	•				
dog.	• • • • •			•••		••	••	••	•	 	

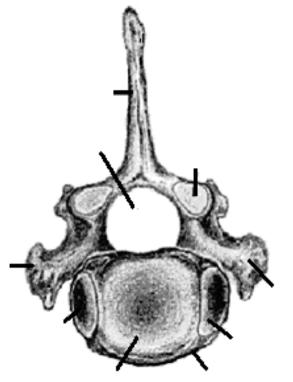
Number of vertebrae

		Divisions of	of the vert	ebral cha	nnel					
Animal species	Cervical	Thoracic	Lumbar	Sacral	Caudal	Total				
Cattle										
Horse										
Dog										
Task: Write the number of vertebrae										

Task: add terminology according to numbering of the picture.

Atlas of dog 1 –.... 2 –..... 3 –..... 4 –.... 5 –..... 6 –.... 9 –..... 10 –..... 11 -.... 12 –..... Second cervical vertebra (axis) of the horse 1 –..... 2 –..... 3 -.... 4 –..... 5 –..... 6 –..... 7 –..... 9 _.... 10 –..... Typical cervical vertebra of cattle 1 –..... 2 –..... 3 –..... 4 –..... 5 –..... 6 –..... 8 –..... 9 –.....

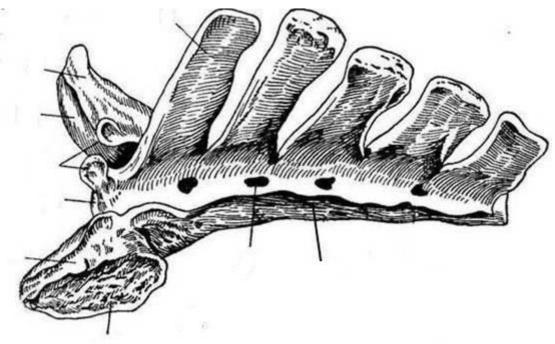
Task: add terminology according to numbering of the pictures.



Seventh cervical vertebra of cattle

1	• • • • •
2 –	• • • • •
3	• • • • •
4	
5	
6	
7	
8 –	
9 –	

Task: write the numbers in the picture and add terminology.



Sacral bone of horse

- 1 head
- 4 dorsal sacral foramina
- 5 median sacral crest
- 6 cranial articular processes
- 7 intermedian sacral crest
- 8 lateral sacral crest

- 9 wing of sacrum
- 10 auricular surface
- 11 articular surfaces on the wings of horse's sacrum

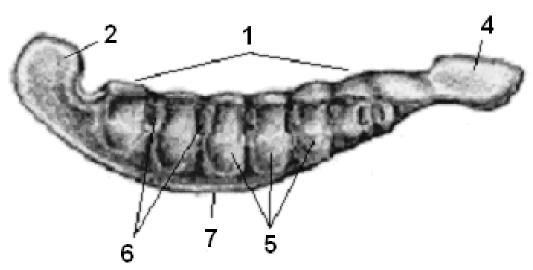
Task: number picture according to terminology.

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Rib (cattle)

A – rib bone	
B – rib cartilage	

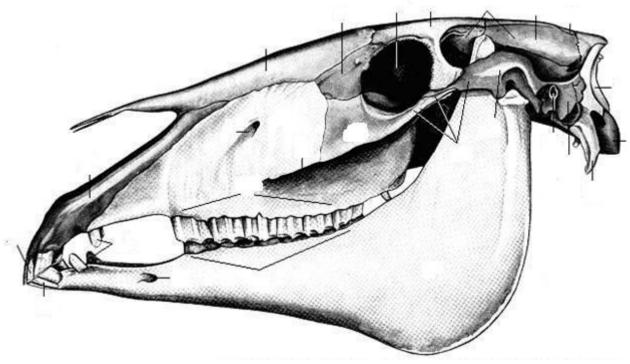
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	_																					
	_																					



Sternum of horse

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2	_ <u></u>	
3		
4		
6	–	

Task: add terminology according to numbering of the pictures.



Scull of horse –

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	nomotol	hono
	– parietal	DOHE
_	P *** * * * * * * * * * * * * * * * * *	~ ~

2 - frontal bone

3 – occipital bone

4 – lacrimal bone

5 – nasal bone

6 – maxilla

7 - mandible

8 – temporal bone

9 – petrosal bone

10 – zygomatic bone

11 – incisive bone

12

13

14

15

16

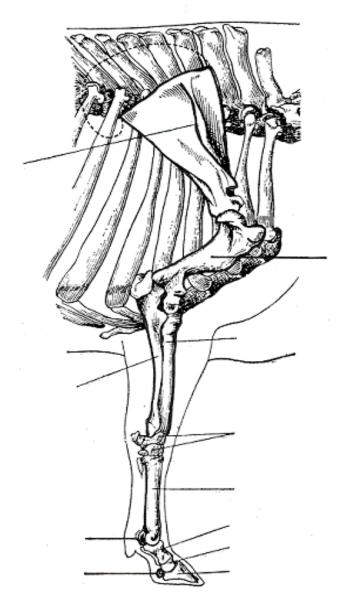
17

18 19

20

Task: write the numbers in the picture and continue the designations from 12.

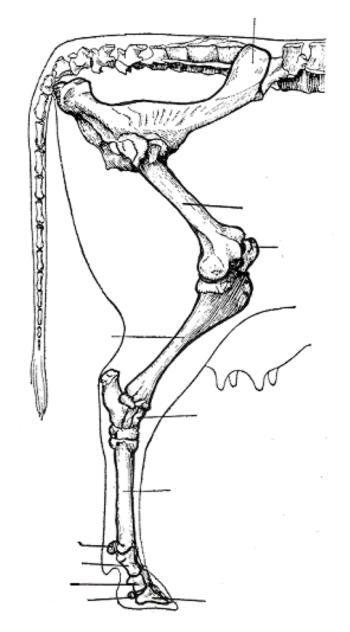
APPENDICULAR SCELETON



Skeleton of the thoracic limb

- 1 scapula
- 2 brachium, s. humerus
- 3 radius
- 4 ulna
- 5 ossa carpi
- 6 ossa metacarpi
- 7 phalanx proximalis
- $8-phalanx\ media$
- 9 phalanx distalis
- 10 ossa sesamoidea proximalia
- 11 os sesamoidea distalis

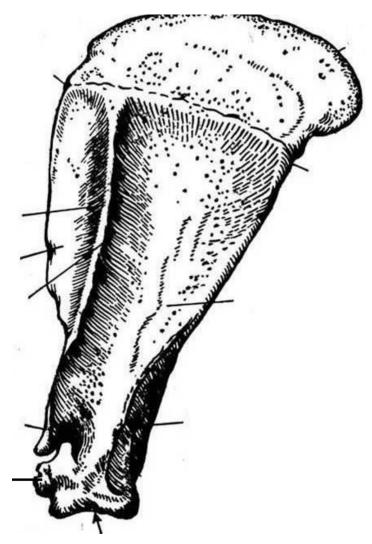
Task: write the numbers in the picture.



Skeleton of the pelvic limb of the cattle

- 1 os coxae
- 2 os femoris
- 3-patella
- 4 ossa cruris
- 5 ossa tarsi
- 6 ossa metatarsi
- 7 phalanx proximalis
- 8 phalanx media
- 9 phalanx distalis
- 10 ossa sesamoidea proximalia
- 11 os sesamoidea distalis

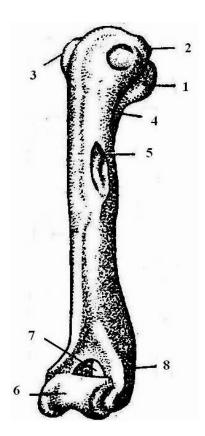
Task: write the numbers in the picture.



Scapula of the cattle (left) (lateral aspect)

- 1 dorsal margin of scapula
- 2 scapular cartilage
- 3 cranial angle
- 4 caudal angle
- 5 glenoid cavity
- 6 spina of scapula
- 7 acromion
- $8-supraspinous\ fossa$
- 9 infraspinous fossa
- 10 neck of scapula

Task: designate the elements of scapula structure.



Humerus of dog (dorsal surface)

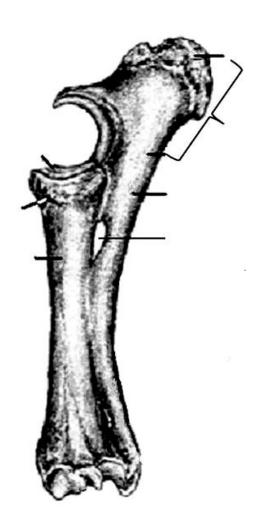
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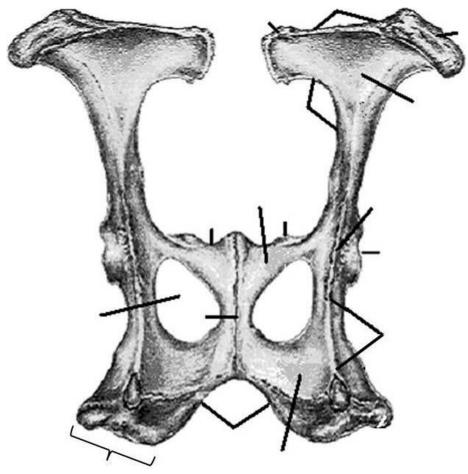
Task: add terminology according to numbering of the pictures.

Antebrachial skeleton [skeleton of forearm]

- 1 radius
- 2 head of radius
- 3 tuberosity of radius
- 4 carpal articular surface
- 5 ulna
- 6 olecranon
- 7 tuber of olecranon
- 8 proximal interosseous space
- 9 distal interosseous space

Task: designate the elements of bones structure.



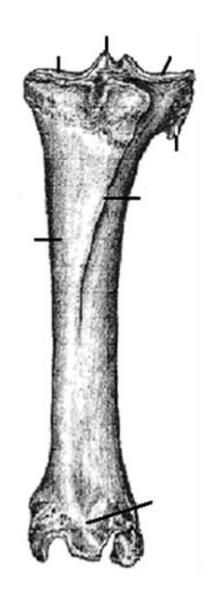


Hip bone (coxal bone)

(animal)

- 1 ilium
- 2 pubis
- 3 ischium
- 4 acetabulum
- 5 coxal tuber
- 6 sacral tuber
- 7 iliac crest
- 8 greater ischiatic notch
- 9 ischial spine
- 10 lesser ischiatic notch
- 11 ischiatic tuberosity
- 12 ischial arch
- 13 obturate foramen
- 14-iliopectineal eminence
- 15 symphysial crest

Task: write the numbers in the picture.



Skeleton of crus

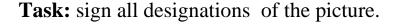
(animal)

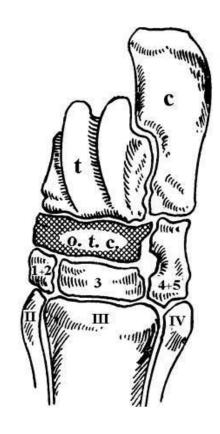
- 1 tibia
- 2 lateral condyle
- 3 medial condyle
- 4 intercondylar eminence
- 5 cranial margin
- 6 distal articular surface
- 7 articular grooves
- 8 medial condyle
- 9 lateral condyle
- 10 fibula

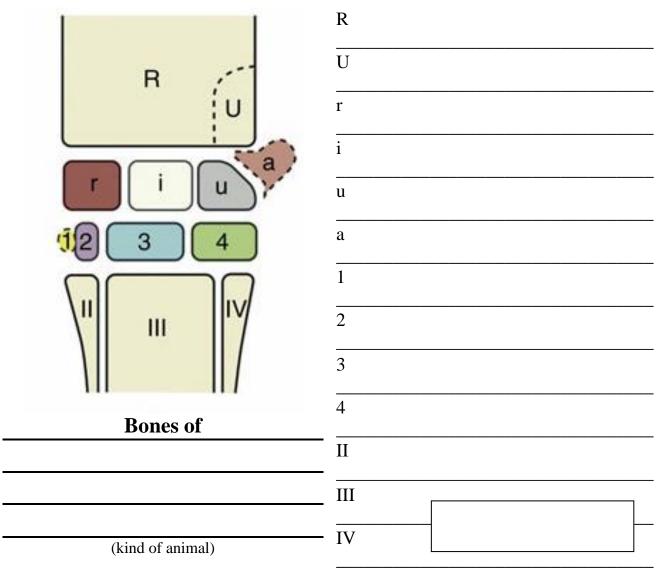
Task: write the numbers in the picture according to terminology.

Tarsal and metatarsals bones of horse

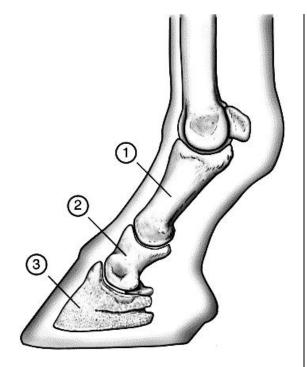
5. _____







Task: sign all designations of the picture.



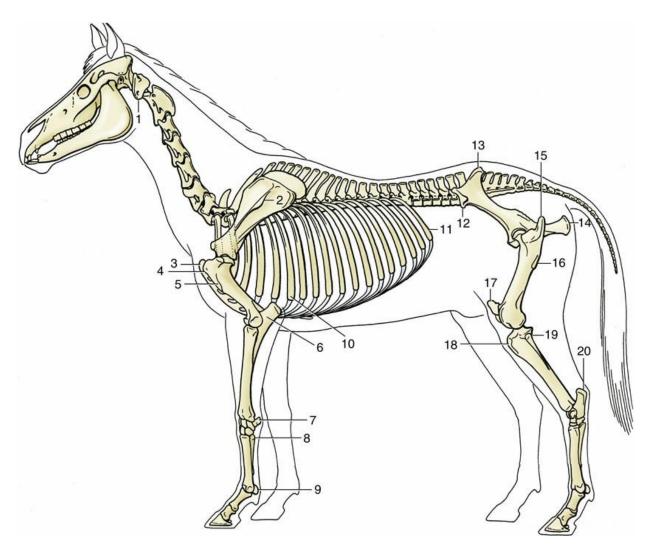
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[**-** _____

2 - _____

3 - _____

Task: write all terms for each.

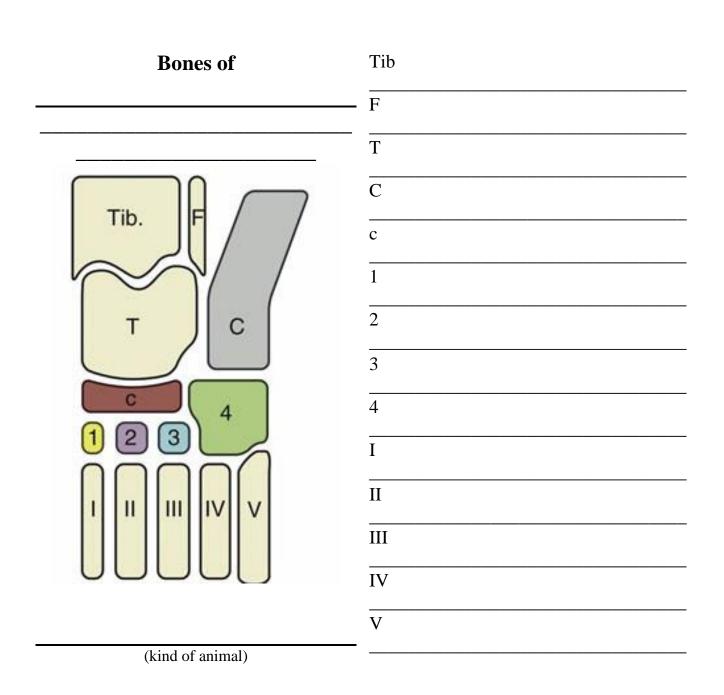


The skeleton of the _____

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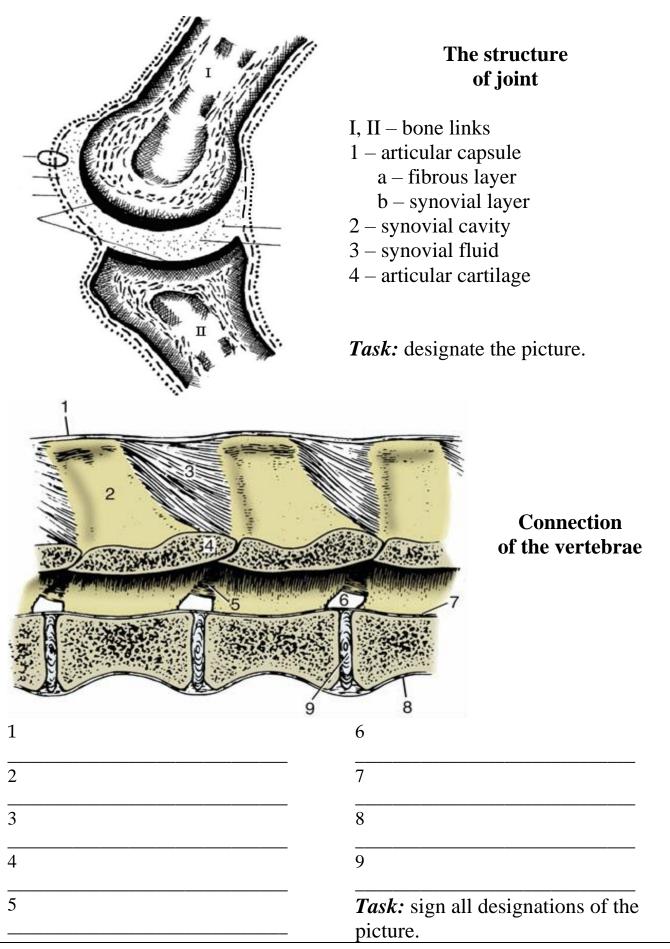
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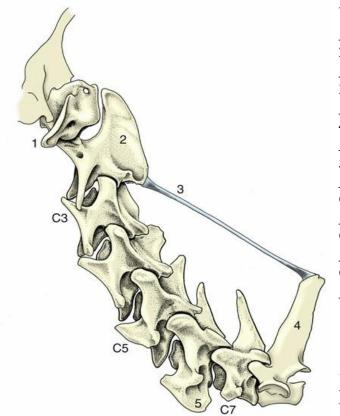
Task: sign all designations of the picture.



Task: sign all designations of the picture.

ARTHROLOGY

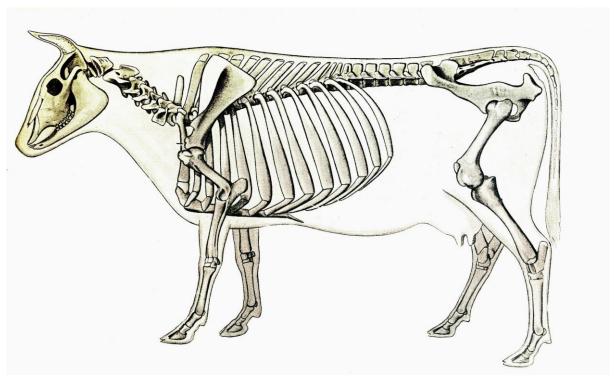




1	
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C 3	
C 7	

Task: sign all designations of the picture.

Joints of axial skelen of the	(write in the natural
seqency)	
1.	
2.	
3.	
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10.	

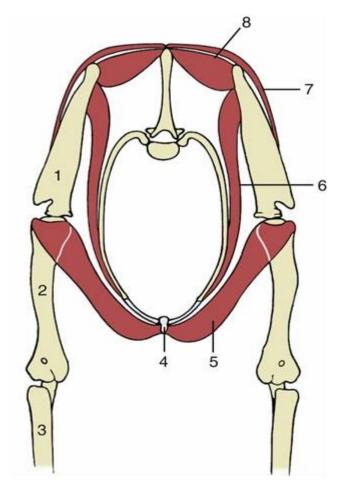


Joints of limbs of cattle

Thoracic limb	Pelvic limb					
1.	1.					
2.	2.					
3.	3.					
4.	4.					
5.	5.					
6.	6.					
<i>Task:</i> ring and number joint, and write its name.	7.					

MUSCULAR SYSTEM Accessory organs of muscular system

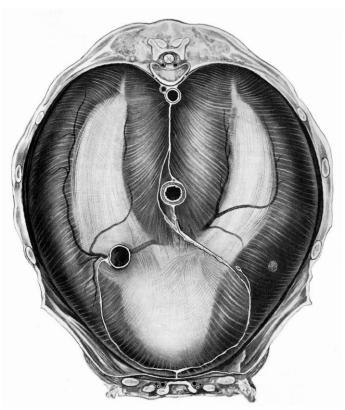
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Muscles of shoulder girdle

1			
2			
3			
4			
5			
6			
7		 	
8			

Task: sign all designations of the picture.



Diaphragm

1.

2			

3.			
.).			

4			
4.			

5.			
.).			

Task: write terminology and number the picture.

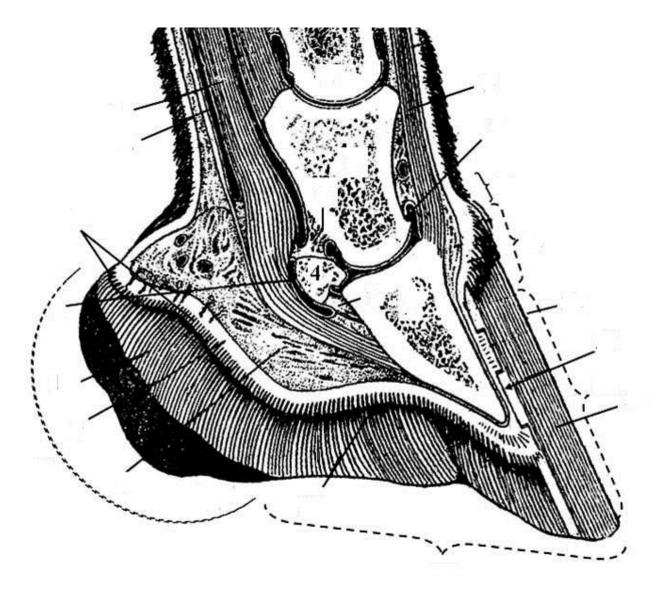
LAYERED STRUCTURE OF VENTRAL ABDOMINAL WALL

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•					

Task: write layers of ventral abdominal wall in natural sequence beginning outside.

COMMON INTEGUMENT

HOOF



Sagittal section of a horse's hoof

I-limbus, II-corona, III-paries, IV-solea, V-furca, s. cuneus

- 1. os compedale (phalanx proximalis, phalanx primum ph. I)
- 2. os coronale (phalanx media, phalanx secundum ph. II)
- 3. os ungulare (phalanx distalis, phalanx tertium ph.III)
- 4. os naviculare s. os sesamoideum distale
- 5. articulatio interphalandea distalis [ungulare]
- 6. lig. sesamoideum coronale
- 7. lig. sesamoideum ungulare
- 8. bursa podotrochlearis
- 9. tendo m. flexor digitorum profundus
- 10.tendo m. extensor digitorum communis (longus)

Task: write the numbers in the picture.

VISCERAL SYSTEMS SPLANCHNOLOGY

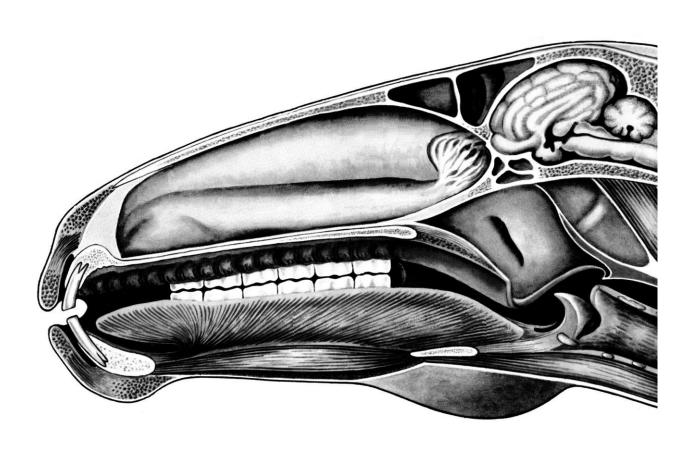
DIGESTIVE APPARATUS –

•••••	•••••	•••••	•••••

Anatomical composition of organ of the digestive apparatus

No॒	The n	ame of the organ
	English terminology	International terminology
	Organs o	of the headgut
A	Organs of the oral cavity	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
В	Pharynx	
	Organs	of the foregut
1		
2		
	Organs	of the midgut
Smal	l intestine	
1		
2		
3		
Extra	mural digestive gland	
1		
2		
	Organs o	of the hindgut
_	ge intestine	
1		
2		
3		

Task: write anatomical composition of the organ of digestive apparatus using English and international terminology.



Organs of oral cavity. Sagittal section of the horse's head

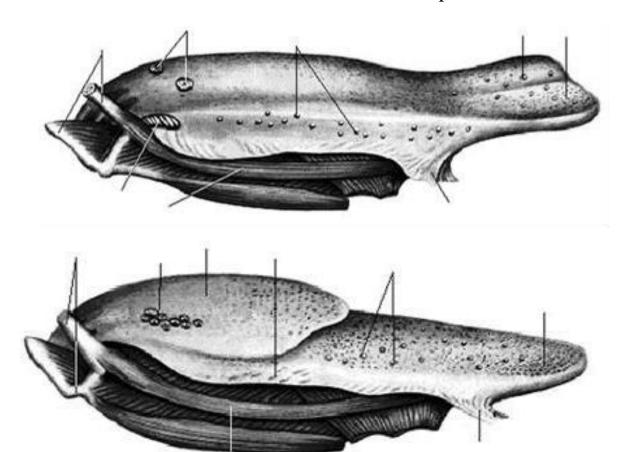
1 – lips	
2 – hard palate	
3 – soft palate	
4 – teeth	
5 – tongue	
6 – pharynx	
7 – pharyngeal opening of auditory tube	
8 – nasal cavity	
9 – choanae	
10 – larynx	
11 – trachea	
12 – oral vestibule	
13 – oral cavity proper	

Task: write the numbers in the picture and add Latin terminology.

Dental formulae

Animal species	Dental formulae	Σ
Cattle	I C P M	=
Horse	I C P M	=
Dog	I C P M	=

Task: write the Dental formulae for each animal species.



Tongue

A-horse, B-cattle

1 – vallate papillae,

6 – hyoid bone,

2 – foliate papillae, 7 – muscle of the tongue,

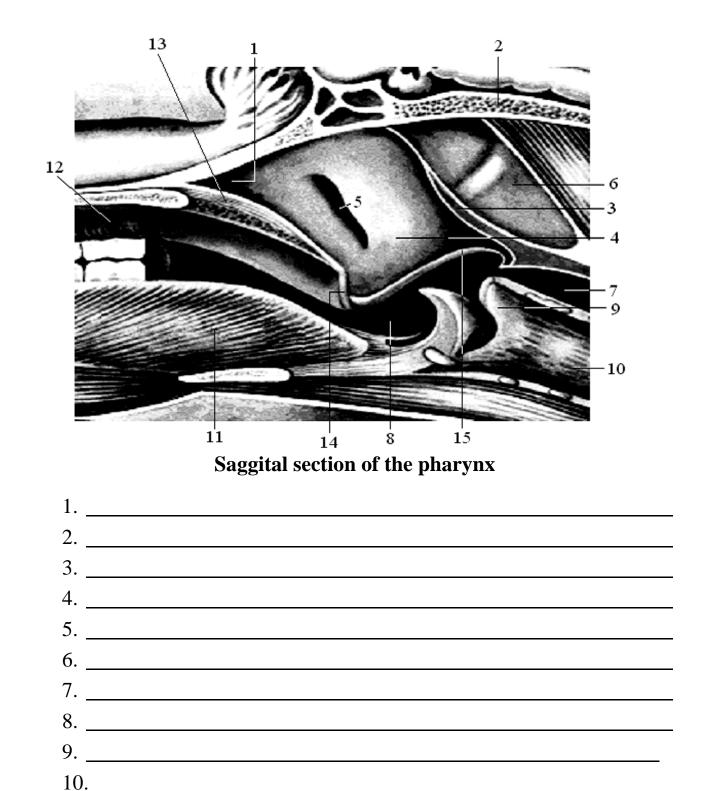
8 – frenulum,

9 - torus.

3 – fungiform papillae, 4 – conical papillae,

5 – filiform papillae,

Task: number picture according to terminology.



Task: write the terms according to numbers.

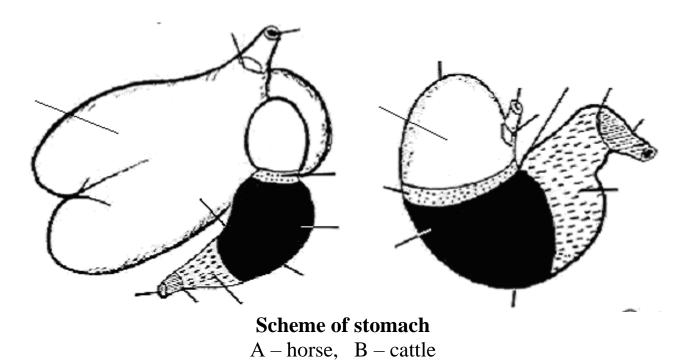
11.

12.

13.

14.

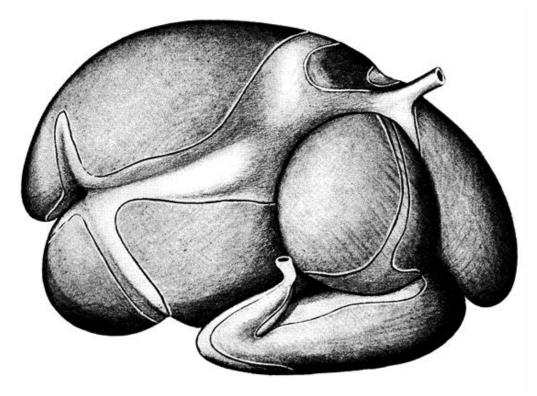
15.



<u>1</u> 2

2
3
4
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6
7
8
9
10
11

Task: number picture and write terminology.



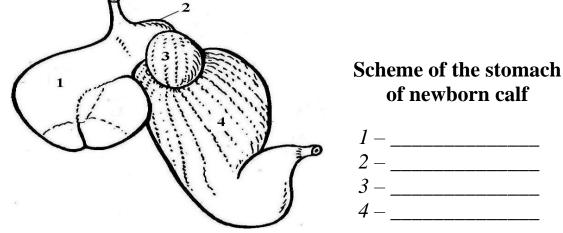
Stomach of cattle

(right aspect)

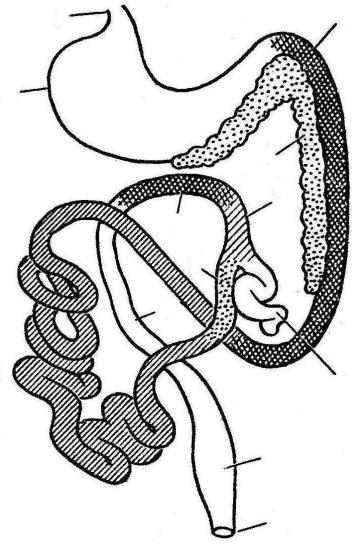
	(is a constant of the constan
1 – esophagus	8 – caudoventral blind sac
2 – right longitudinal groove	9 – dorsal coronary groove
3 – dorsal ruminal sac	10 – ventral coronary groove
4 – ventral ruminal sac	11 – reticulum
5 – atrium of rumen	12 – omasum
6 – caudal groove	13 – abomasum

Task: number picture according to terminology.

7 – caudodorsal blind sac



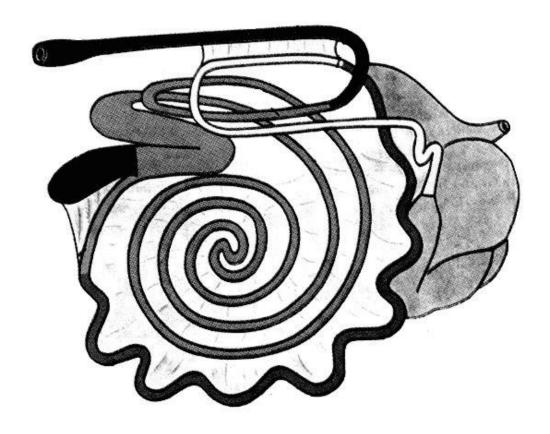
Task: add terminology according to number of picture.



Scheme of dog's intestine

1	•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	 • • • •
2		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
3					
4					
5 –					
6 –					
7 –					
8					
9					
10	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	

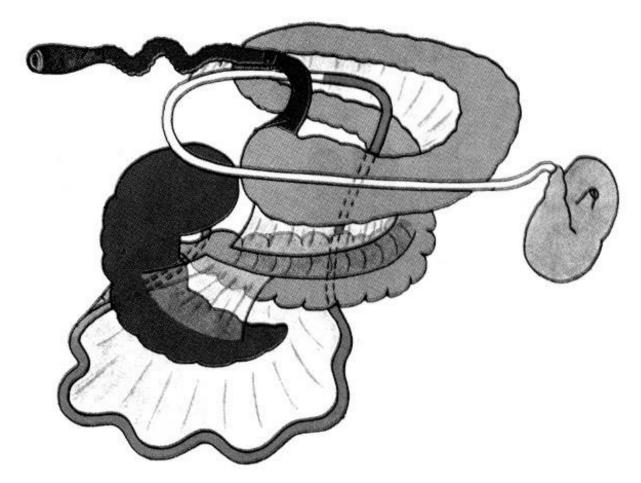
Task: number picture and add terminology.



Scheme of cattle's intestine

- 1 stomach,
- 2 duodenum,
- 3 jejunum,
- 4 ileum,
- 5 caecum,
- 6 colon,
 - 6.1 proximal loop,
 - 6.2 centripetal coils,
 - 6.3 central flexure,
 - 6.4 centrifugal coils,
 - 6.5 distal loop,
 - 6.6 transverse colon,
 - 6.7 descending colon,
- 7 rectum,
- 8 mesentery,
- 9 duodenocolic ligament,
- 10 cecoiliac ligament.

Task: number picture according to terminology.



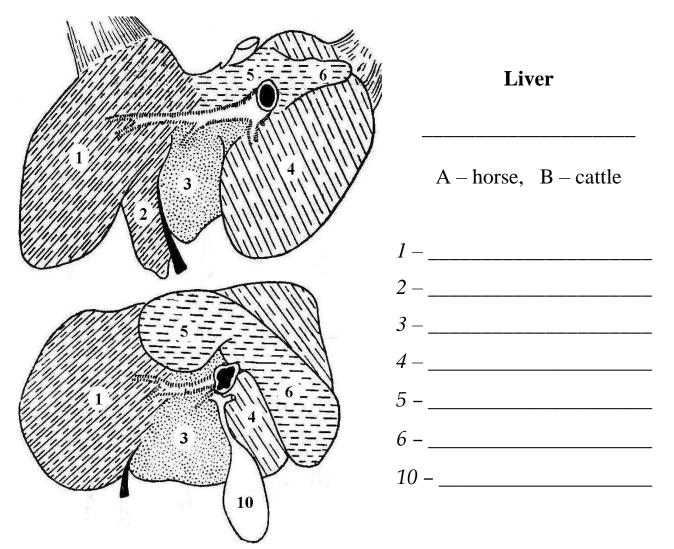
Scheme of horse's intestine

1 - stomach, 2 - duodenum, 3 - jejunum, 4 - ileum, 5 - cecum, 6 - large colon:

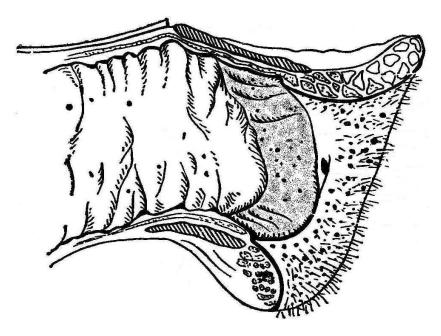
- 6.1 right ventral colon,
- 6.2 ventral diaphragmatic flexure,
- 6.3 left ventral colon,
- 6.4 pelvic flexure,
- 6.5 left dorsal colon,
- 6.6 dorsal diaphragmatic flexure,
- 6.7 right dorsal part [dilation of colon],

7 - small colon [colon tenue, descending colon], 8 - rectum, 9 - mesentery, 10 - intercolic ligament, 12 - cecocolic ligament.

Task: number picture according to terminology.



Task: add terminology according to designations.



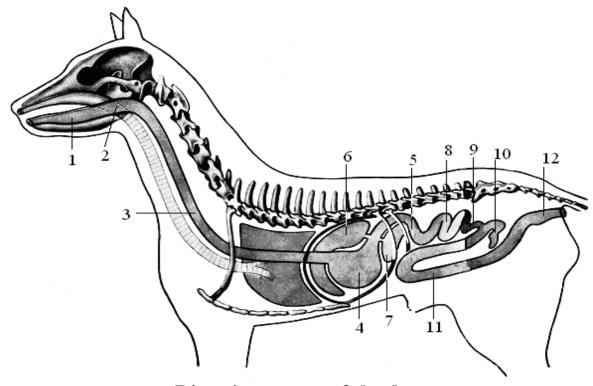
Task: number picture according to terminology.

Longitudinal section of anal canal of a dog

- 1 mucosa of rectum,
- 2 anorectal line
- 3 intermedial zone
- 4 anocutaneous line
- 5 cutaneous zone
- 6 anal glands
- 7 paranal sinus

Sphincters of anus:

- 8 internal
- 9 external



Digestive system of the dog

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

Task: write the terms according to numbers.

RESPIRATORY APPARATUS -

••••••••••••••••••••••••••••••

Anatomical composition of organ of the respiratory apparatus

N₂	Name of the organ					
	English terminology	International terminology				
1						
2						
3						
4						
5						
6						

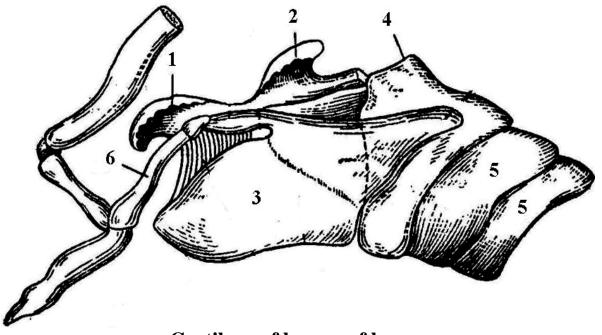
Task: write anatomical composition of the organ of respiratory apparatus using English and international terminology.



Muscles of larynx

1 – ventricularis, 2 – m. arytenoideus transversus, 3 – m. vocalis, 4 – m. cricoarytaenoideus lateralis, 5 – m. cricoarytaenoideus dorsalis, 6 – m. cricothyreoideus, 7 – thyroid gland, m. sternothyreoideus, 9 – m. hyothyreoideus.

Task: Write the numbers in the picture according to terms.

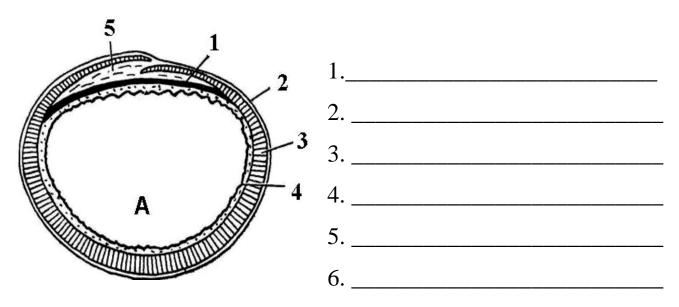


Cartilage of larynx of horse.

Left aspect.

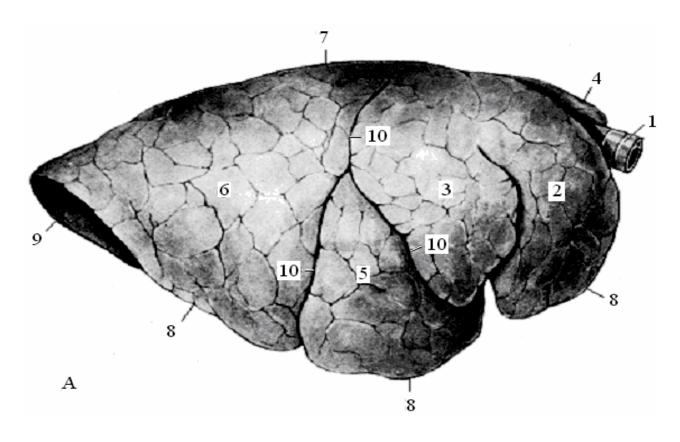
1	
2.	
3.	
4.	
5.	
6.	

Task: write the terms according to numbers.



Transverse section of the horse's Task: write the terms according to trachea

numbers.



Lung. Right aspect.

	(animal)	
1	· · · · · · · · · · · · · · · · · · ·	
2		
3		
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5		
6		
7		
8		
9		
10		

Task: write the terms according to numbers.

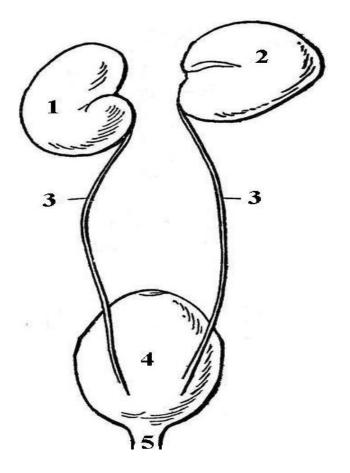
URINARY APPARATUS -

••••••••••••

Anatomical composition of organs of the urinary apparatus

No	Name of the organ						
	English terminology International terminology						
1							
1							
2							
3							
4							
5.1							
5.2							

Task: Write anatomical composition of the organs of urinary apparatus using English and international terminology.



Scheme of organs of the urinary apparatus

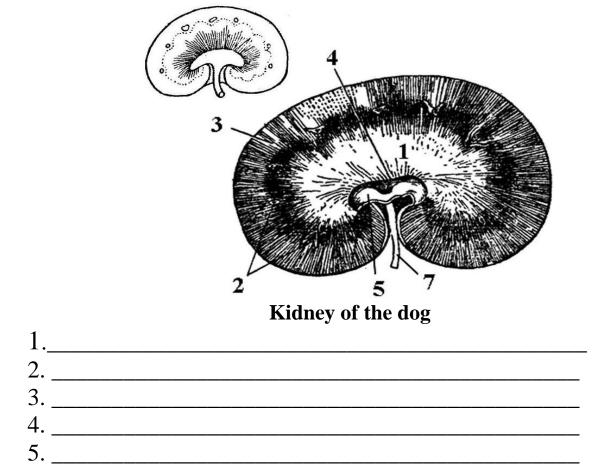
l					

Task: Write the terms according to numbers.

^{2.}

^{3.} _____

^{5.} _____



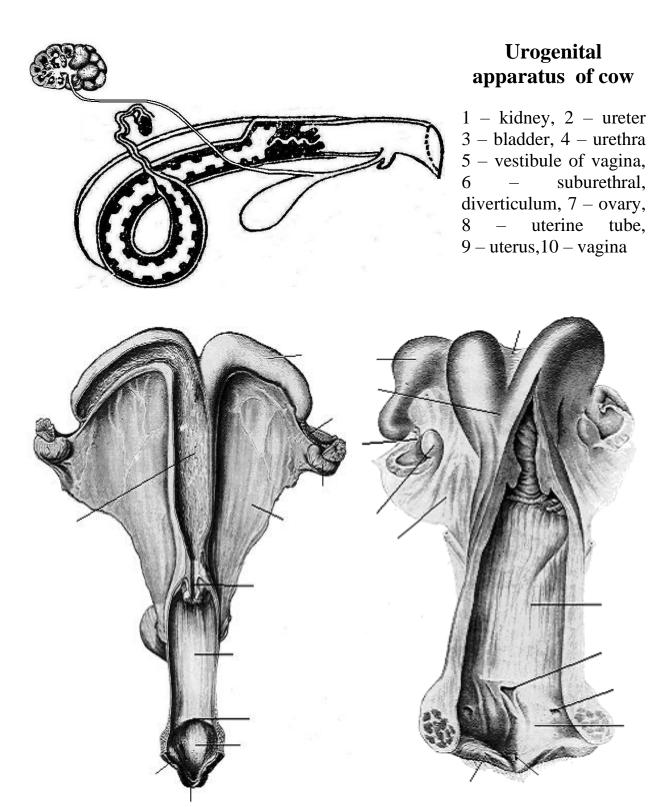
Task: Write the terms according to numbers.

Anatomical composition of the female genital organs

FEMALE GENITAL ORGANS -

№ Name of the organ English terminology International terminology 1 2 3 4 5 6.

Task: Write anatomical composition of the female genital organs using English and international terminology.

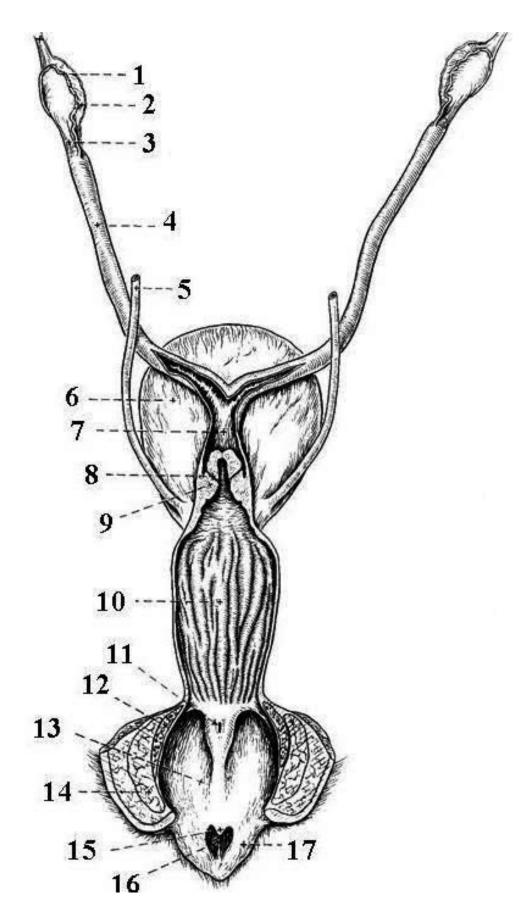


Female genital organ

A –	B –	

1 – ovary, 2 – uterine tube, 3 – horn of uterus, 4 – body of uterus, 5 – uterine cervix, 6 – vagina, 7 – external orifice of u rethra, 8 – vestibule of vagina, 9 – vulva, 10 – clitoris, 11 – broad ligament of uterus, 12 – intercornual ligament.

Task: Number the pictures according to terms.



Dorsal aspect of female genitalia of dog

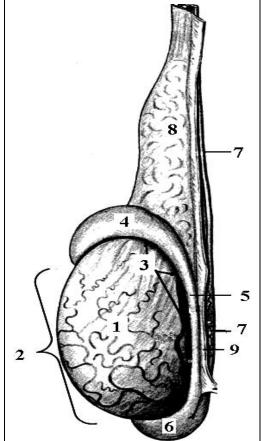
1	
	_
	_
	_
	_
	-
	-
	-
	-
	-
	-
12.	 -
15	_
	_

Task: Write the terms of each organ according to numbers of the picture.

MALE GENITAL ORGANS -

Anatomical composition of organ of the male genitalia

N_{2} Name of the organ					
	English terminology	International terminology			
1					
2					
3					
4					
5					
6	Accessory genital glands				
a)					
b)					
c)					
7					
8					
9					



Testis, epididymis, ductus deferens	
[vasdeferens], and spermatic cord of b	ul

left aspect

2.

3.

4.

5

6.

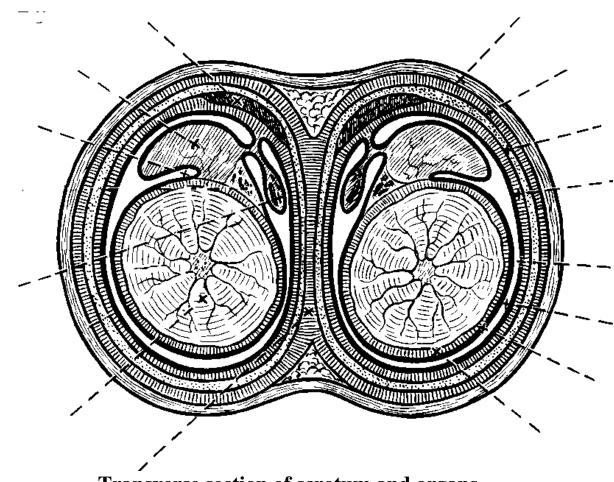
_

7._____

8.____

9._____

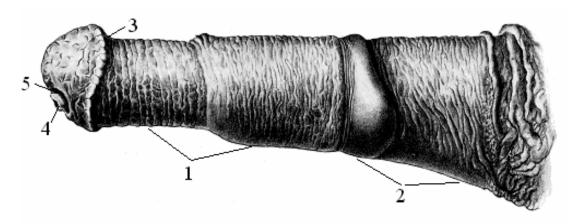
Task: Write the terms according to numbers.



Transverse section of scrotum and organs which are located there

1			
3			
4			
5	 		
6			
7			
8			
9			
10	 	 	
11			
12	 	 	
13		 	
14			

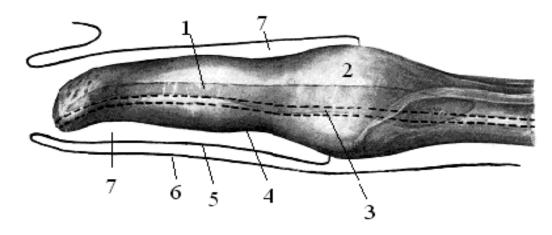
Task: Write the numbers in the picture and the terms using the textbook.



Glans penis and prepuce of stallion

1			
2.			
3.			
4.			
5.			

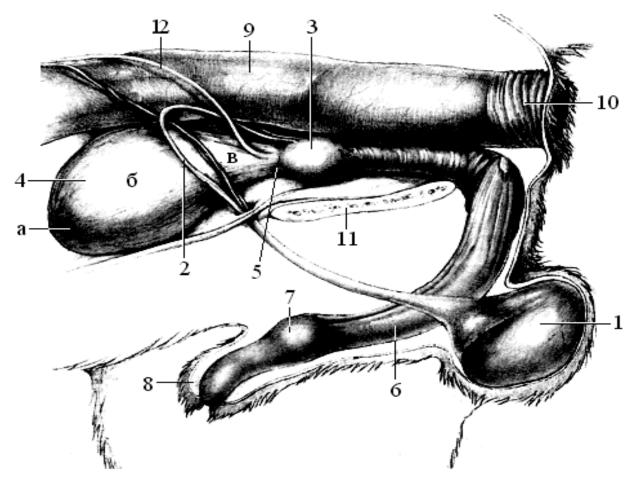
Task: Write the terms according to numbers.



Glans penis and prepuce of dog's male

1	•	1	0		
2					
3					
4					
5					
6					
7.					

Task: Write the terms according to numbers.



The urogenital apparatus of a dog's male

1	 	 		
2				
3			 	
4				
5				
6				
7				
8				
9				
10				

Task: Write the terms of each organ according to numbers.

INTEGRAL SYSTEMS ANGIOLOGY. CIRCULATORY SYSTEM

Anatomical composition

№	Name of the organ					
	English terminology	International terminology				
1						
2						
3						
4						
5						

Task: Fill in table using English and international terminology.

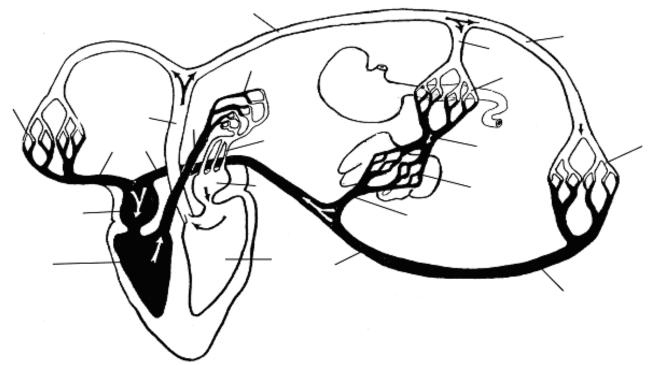
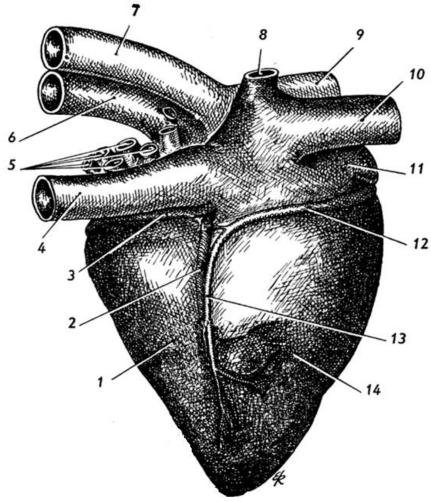


Diagram of the mammalian circulation

1 - left atrium, 2 - left ventricle, 3 - aorta, 4 - arteries, 5 - capillary bed, 6 - veins, 7 - right atrium, 8 - right ventricle, 9 - pulmonary trunk, 10 - pulmonary veins, 11 - hepatic veins, 12 - cranial vena cava, 13 - caudal vena cava.

Task: Number the picture according to terms.



Heart of horse (right aspect)

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	

Task: Write the terms according to numbers.

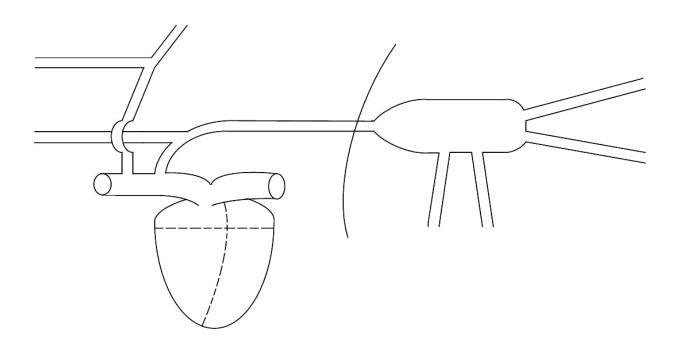
Individual creative tasks with angiology

Deliver blood from the jugular vein through the _into the ______.

LYMPHATIC SYSTEM Anatomical composition

No॒	International terminology of the organ
1	
2	
3	
4	
5	
6	
7	

Task: Fill in table using international terminology.



Scheme of lymphatic collecting vessels

- 1 cranial vena cava, 2 thoracic duct, 3 cisterna chyli, 4 lumbar trunks,
- 5 intestinal trunk, 6 celiac trunk, 7 left tracheal trunk, 8 right lymphatic duct,
- 9 right tracheal trunk.

Task: Number the picture according to terms.

Individual tasks with lymphatic system

Drainage directions (lymph outflow) from the

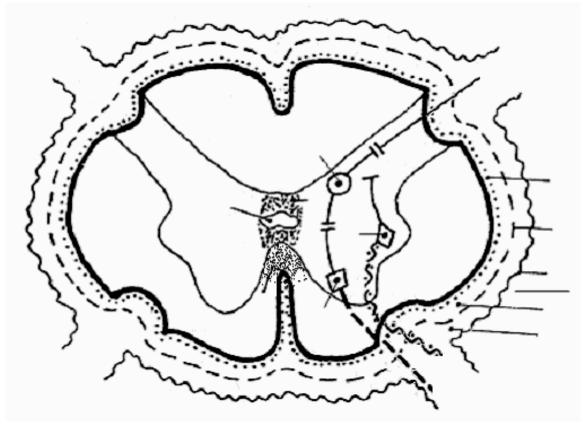
1	
2	
3	
4	
5	
6	
7	
8	

NERVOUS SYSTEM

Anatomical composition

№	Name of the organ			
	English terminology	International terminology		
1				
2				
3				
4				
5				
6				

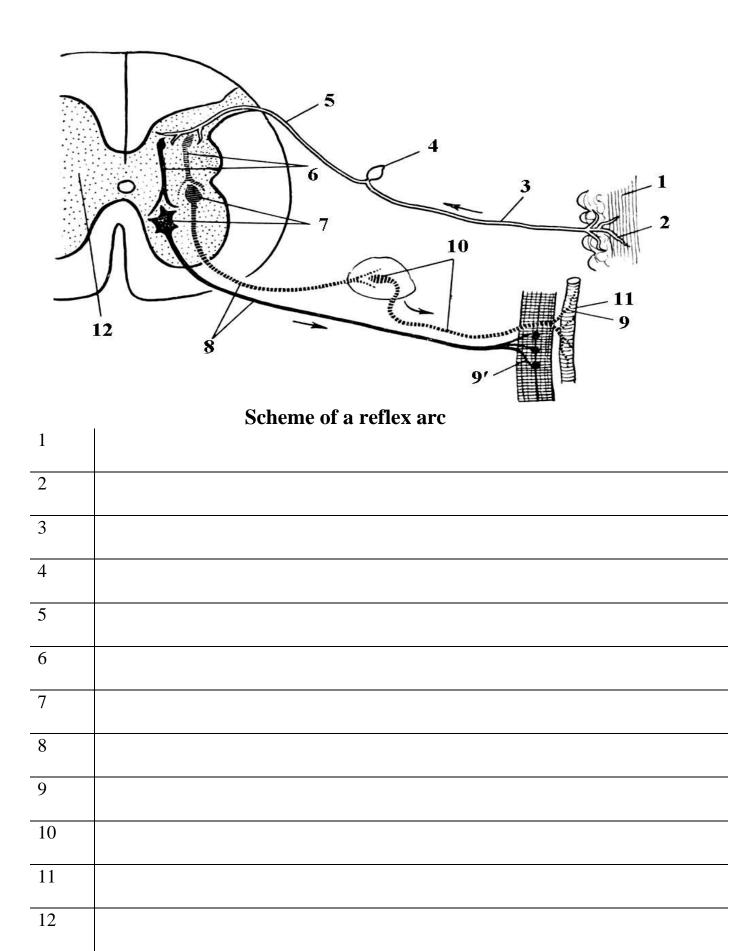
Task: Fill in table using English and international terminology.



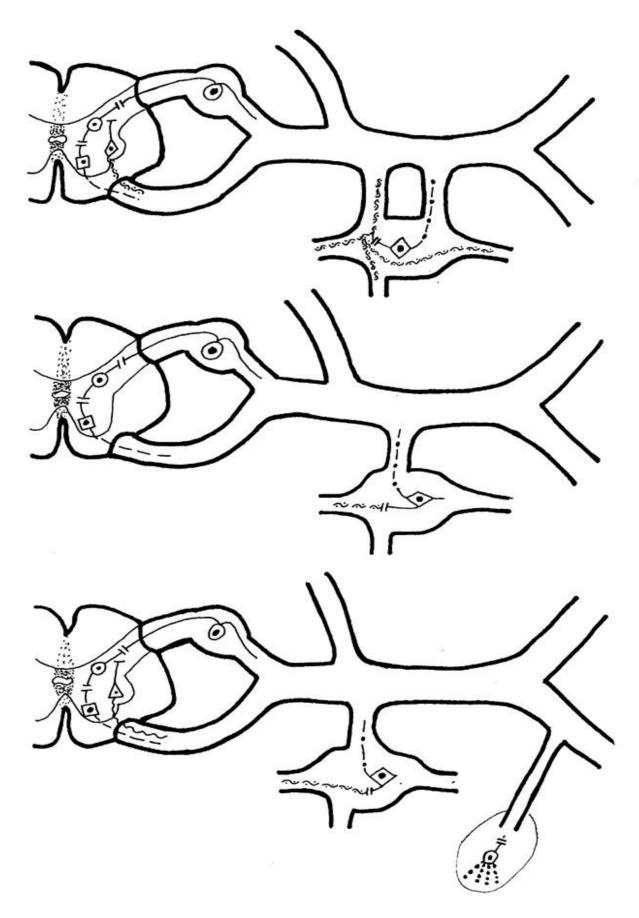
The spinal cord, its membranes and spaces

- 1 central canal, 2 grey matter: a dorsal horn, b lateral horn, c ventral horn
- 3 grey commissure, 4 white matter: d dorsal funiculus, e lateral funiculus,
- f ventral funiculus; 5 white commissure, 6 spinal pia mater, 7 spinal arachnoid,
- 8 spinal dura mater, 9 epidural cave, 10 subdural cave, 11 subarachnoid cave,
- 12 central autonomic nerve cell, 13 motor somatic nerve cell, 14 associative nerve cell.

Task: Number the picture according to terms.



Task: Write the terms according to numbering.



Task: Fill in scheme of spinal nerves. Complete the drawing with processes of nerve cells using the textbook and sign each nerve (cervical, thoracic, lumbar or sacral).

The	brachial	plexus	(plexus	brachialis)	is	formed	by

Task: finish the definition.

Nerves of brachial plexus

N₂	Terminology of the nerve
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

Task: Fill in table using the textbook.

T	he <i>lumbar plexus</i> () is formed by		
	inish the definition.			
	Nerves of lumbar plexus			
№	Terminology of the ne			
1				
2				
3				
4				
5				
6				
T	he sacral plexus () is formed by		
	inish the definition. Nerves of sacral plexus			
№		rve		
№ 1	Nerves of sacral plexus	rve		
№ 1	Nerves of sacral plexus	rve		
№ 1 2 3	Nerves of sacral plexus	rve		
№ 1 2 3	Nerves of sacral plexus	rve		
	Nerves of sacral plexus	rve		

Task: Fill in table using the textbook.

Somatic Innervation of the Body Region

Task: write all the nerves that innervate each of these regions of body.

Innervation of the costal wall

№	Name of the nerve
1	
2	
3	
4	
5	
6	

Innervation of the abdominal wall and mammary glands

No	Name of the nerve
1	
2	
3	
4	
5	
6	

Innervation of the scrotum

№	Name of the nerve
1	
2	
3	

Somatic Innervation of the Limb Region

Task: write all the nerves that innervate each of these regions of limbs.

Innervation of the shoulder girdle

No	Name of the nerve
1	
2	
3	
4	
5	
6	

Innervation of the femur

№	Name of the nerve
1	
2	
3	
4	
5	
6	
7	
8	
9	

Somatic Innervation of the Organs of Head

Task: write all the nerves that innervate each of these organs indicating the pairs of cranial nerves.

Innervation of the eye

	Innervation of the eye
№	Name of the nerve and innervation zone
1	
2	
3	
4	
5	
6	
7	
8	
9	

Innervation of the nose

№	Name of the nerve and innervation zone
1	
2	
3	
4	
5	
6	

Innervation of the ear

№	Name of the nerve and innervation zone
1	
2	
3	
4	
5	
6	
7	
8	
9	

Innervation of the lips

№	Name of the nerve and innervation zone
1	
2	
3	
4	
5	

Innervation of the horn

№	Name of the nerve and innervation zone
1	
2	
3	

Ιn	n e	r v	a t	i	o n	o f	t h e	teetl
A 11	11 (uı		\mathbf{v}	V I	t 11 t	

№	Name of the nerve and innervation zone
1	
2	
3	

Innervation of the tong

№	Name of the nerve and innervation zone
1	
2	
3	
4	
5	

Innervation of the palate: hard and soft

№	Name of the nerve and innervation zone				
1					
2					
3					
4					

Innervation of the m. masseter

№	Name of the nerve and innervation zone				
1					
2					
3					
4					

Derivatives of brain vesicles

Brain	Walls of brain vesicle			
vesicle	Ventral	Lateral	Dorsal	Cavities
V				
IV				
III				
II				
I				

Task: Fill in table using the textbook.

NOTES