NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE

Department of internal diseases of animals

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	Dean faculty of veterinary	y medicine
ФАКУЛЬТЕТ В В В В В В В В В В В В В В В В В В	prof. Mykola TSVILIK	HOVSKY
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Head of department prof. Nataliia GRUSHANSKA

"REVIEWED"

Guarantor of AP "Veterinary medicicne"
Program Guarantor
prof. Nataliia GRUSHANSKA

CURRICULUM OF ACADEMIC DISCIPLINE «INTERNAL DISEASES OF ANIMALS»

Field of knowledge «Veterinary medicine»

Specialty 211 – «Veterinary medicine»

Academic programme Veterinary medicine

Faculty of Veterinary Medicine

Author:

Sharandak P.V., d. vet. sci, prof,

1. Description in the course Internal diseases of animals

(назва)

Field of knowled	ge, specialty, educational de	Poree	
Academic degree		ster	
Specialty		ary medicine»	
Academic programme	«Veterinary	y medicine»	
Chara	cteristics of the course		
Type	Comp	ulsory	
Total number of hours	22	20	
Number of ECTS credits	7	,3	
Number of modules	6		
Course project (work) (if any)	_		
Form of assessment	Credit, Credit, Examination		
Indicators of the discip	oline for full-time and part-	time forms	
oi	f university study		
	Full-time form of study	Part-time form of study	
Course (year of education)	4–5	_	
Semester	8, 9, 10	_	
Lecture classes	45 hr.	_	
Practical, seminar classes			
Laboratory classes	120 hr.	_	
Self-study	55 hr.		
Individual assignments			
Nmber of weekly classroom hours for			
the full-time form of study	5,1 hours		

1. Aim, objectives, competences and expected learning outcomes of the discipline

Aim: the main goal of the discipline "Internal Diseases of Animals" is for students to master important issues of general therapy and prevention of internal diseases of animals, as well as to study internal diseases of animals, to find out their etiology, pathogenesis, symptoms.

Objectives: during studying the discipline "Internal Diseases of Animals", students must acquire knowledge and practical skills regarding the etiology of pathogenesis, patho-anatomical changes, symptoms, diagnosis, course, prognosis, therapy and prevention of non-infectious internal diseases of animals. In the case of studying these issues, it is necessary to deepen the theoretical training on the etiopathogenesis of diseases and animal therapy, to develop in students clinical

thinking, a creative approach when solving practical issues on the elimination of animal diseases.

Acquisition of competences: integrated competency (IC):

 IC 1 Ability to solve complex tasks and problems in the field of veterinary medicine, which involves conducting research and/or implementing innovations and is characterized by the uncertainty of conditions and requirements.

general competences (GC):

- GC 1. Ability to abstract thinking, analysis and synthesis.
- GC 2. Ability to apply knowledge in practical situations.
- GC 3. Knowledge and understanding of the subject field and profession.
- GC 7. Ability to conduct research at the appropriate level.
- GC 8. Ability to learn and master modern knowledge.
- GC 9. Ability to make informed decisions.
- GC 11. Ability to evaluate and ensure the quality of performed works.

special (professional) competences (SC):

- SC 1. The ability to establish the features of the structure and functioning of cells, tissues, organs, their systems and body apparatuses of animals of various classes and species mammals, birds, insects (bees), fish and other vertebrates.
- SC 2. The ability to use tools, special devices, devices, laboratory equipment and other technical means to carry out the necessary manipulations during the performance of professional activities.
- SC 3. Ability to follow the rules of labor protection, asepsis and antiseptics during professional activities.
- SC 4. The ability to conduct clinical research for the purpose of formulating conclusions about the condition of animals or establishing a diagnosis.
- SC 6. Ability to select, pack, fix and send samples of biological material for laboratory research.
- SC 7. Ability to organize, conduct and analyze laboratory and special diagnostic studies.
- SC 8. Ability to use specialized software tools to perform professional tasks.

Expected Learning Outcomes (ELO):

- 1. Know and correctly use the terminology of veterinary medicine.
- 2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies.
- 3. Collect anamnestic data during registration and examination of animals, make decisions regarding the choice of effective methods of diagnosis, treatment and prevention of animal diseases.

As a result of studying the academic discipline, the student must

know:

- -terminology of veterinary medicine;
- -methods of clinical, laboratory, functional, instrumental and other animal studies;
- -features of etiology, pathogenesis, symptoms, as well as principles of animal treatment and prophylaxis of internal diseases.

be able:

- to use information from domestic and foreign sources to develop diagnostic, treatment and business strategies;
- to collect anamnestic data during registration and examination of animals, make decisions regarding the choice of effective methods of diagnosis, treatment and prevention of animal diseases;
- -to have the methods of clinical and laboratory, functional, instrumental and other studies of sick animals and to be able to analyze their results;
- -recognize (diagnose) internal diseases of animals;
- -to apply medicines and biological agents appropriately to ensure the safety of the food chain and the environment;
- -communicate effectively with colleagues to share scientific and technical information and practical experience;
- -draw up a plan of measures for the prevention of internal diseases of animals and organize its implementation.

2. Programme and structure of the discipline for:

- complete full-time (part-time) form of study

Topic of lecture 1. Introductory lecture. Definition of the subject. The main stages of the development of the doctrine of internal diseases of animals. Principles, types and methods of therapy.

Topic of lecture 2. General therapy and prevention of internal diseases of animals. Theoretical foundations and practical aspects of dispensation of animals.

Topic of lecture 3. Concept of physiotherapy and physiotherapy. Principles and classification of modern methods of physiotherapy.

Topic of lecture 4. Diseases of the cardiovascular system. Classification. Spread. General symptoms and syndromes. Diseases of the pericardium.

Topic of lecture 5. Diseases of the myocardium and endocardium.

Topic of lecture 6. Diseases of the respiratory system. Classification and distribution. Symptoms and syndromes of respiratory diseases. Diseases of the respiratory tract.

Topic of lecture 7. Inflammatory and non-inflammatory lung diseases.

Topic of lecture 8. Diseases of the pleura: pleurisy, hydro- and pneumothorax.

(5th year of education, 9 semester)

Topic of lecture 1. Diseases of the digestive system. Classification, distribution, symptoms and syndromes of diseases of the digestive system. Diseases of the stomachs of ruminants.

Topic of lecture 2. Stomach and intestinal diseases with colic syndrome. Classification, main symptoms, principles of diagnosis and treatment of sick animals with colic syndrome.

Topic of lecture 3. Diseases of the stomach and intestines: gastritis, peptic ulcer, gastroenteritis, gastroenterocolitis.

Topic of lecture 4. Diseases of the liver and biliary tract. Classification, distribution, main syndromes of diseases of the liver and biliary tract. Hepatitis, hepatodystrophy.

Topic of lecture 5. Diseases caused by metabolic disorders. Classification, distribution, features of the course and diagnosis. Ketosis.

Topic of lecture 6. Diseases caused by disturbances in the metabolism of macroelements. Osteodystrophy, hypomagnesemia, postpartum hypophosphatemia.

Topic of lecture 7. Microelementoses of animals. Distribution, general principles of diagnosis and prevention.

Topic of lecture 8. Diseases of the endocrine system. Causes and mechanisms of development. Diseases of the thyroid, parathyroid and adrenal glands.

(5th year of education, 10 semester)

Topic of lecture 1. Diseases of young animals. Classification and spread of diseases of young animals. Peculiarities of the age-related physiology of young animals. Immunodeficient condition of young animals. Antenatal hypotrophy.

Topic of lecture 2. Classification, distribution and main syndromes of kidney and urinary tract diseases. Principles of therapy and prevention.

Topic of lecture 3. Urolithiasis. Distribution, general principles of diagnosis and therapy.

Topic of lecture 4. Diseases of the blood system. Classification. Spreading. Anemias: classification, etiology, methods of diagnosis and treatment.

Topic of lecture 5. Diseases of the nervous system. Classification, distribution, general syndromes and diagnosis of diseases of the nervous system.

Topic of lecture 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy.

Topic of lecture 7. Allergic and autoimmune diseases of animal skin. General characteristics, methods of diagnosis and treatment.

Topic of lecture 8. Diseases of fur animals. Biological features of fur animals. Distribution, diagnosis and prevention of internal diseases of fur animals.

Structure of education dyscipline (4 year of education 8 semester)

Structure of education dyscipline (4	year of	educati	ion 8	sen	neste	r)	
Number of hours							
Names of content modules and tonics		Full-time form					
Names of content modules and topics	weeks	total	Also include				
			1	р	lab	ind	self
1	2	2	3	4	5	6	7
Content module 1. Gene	ral Thera	py.					
Topic 1. Definition of the subject. The main stages of the							
development of the doctrine of internal diseases of	1-2	8	2		4		2
animals. Principles, types and methods of therapy.							
Topic 2. General therapy and prevention of internal							
diseases of animals. Theoretical foundations and practical	3-4	8	2		4		2
aspects of dispensation of animals. Therapeutic technique.							
Topic 3. Concept of physiotherapy and physiotherapy.							
Principles and classification of modern methods of	5-6	8	2		4		2
physiotherapy.							
Together according to the content module 1		24	6		12		6
Content module 2. Diseases of cardiovascular and pulmonary system.							
Topic 4. Diseases of the cardiovascular system.							
Classification. Spread. General symptoms and syndromes.	7-8	9	2		4		3
Diseases of the pericardium.							
Topic 5.Diseases of the myocardium and endocardium.	9-10	9	2		4		3
Topic 6. Diseases of the respiratory system. Classification							
and distribution. Symptoms and syndromes of respiratory	11-12	9	2		4		3
diseases. Diseases of the respiratory tract.							
Topic 7. Inflammatory and non-inflammatory lung	13-14	9	2		4		3
diseases.	13-14	9			4		3
Topic 8. Diseases of the pleura: pleurisy, hydro- and	15	5	1		2		2
pneumothorax.	13	3	1				2
Together according to the content module 2		41	9		18		14
Total hours		65	15		30		20

Structure of education dyscipline (5 year of education 9–10 semester)

Names of content modules and topics	Full-time form						
Traines of content moderes and topics	week	total	Also include				
			1	p	lab	ind	self
1	2	3	4	5	6	7	8
5 year of educat	ion 9 sei	nester					

Content module 1. Dise	ases of dig	estive sys	stem		
Topic 1. Diseases of the digestive system. Classification,	1-2				
distribution, symptoms and syndromes of diseases of the		12	2	6	4
digestive system.					
Topic 2. Stomach and intestinal diseases with colic	3-4				
syndrome. Classification, main symptoms, principles of		0			
diagnosis and treatment of sick animals with colic		8	2	6	
syndrome.					
Topic 3. Diseases of the stomach and intestines: gastritis,	5-6	10	2		4
peptic ulcer, gastroenteritis, gastroenterocolitis.		12	2	6	4
Topic 4. Diseases of the liver and pancreas.	7-8	8	2	6	
Together according to the content module 1		40	8	24	8
Content module 2. Diseases of	aused by n	nethaboli	c disea	ases	
Topic 5. Diseases caused by metabolic disorders.	9-10				
Classification, distribution, features of the course and		12	2	6	4
diagnosis. Ketosis.					
Topic 6. Diseases caused by disturbances in the	11-12	8	2	6	
metabolism of macroelements.		0		0	
Topic 7. Microelementoses of animals. Distribution,	13-14	11	2	6	3
general principles of diagnosis and prevention.		11		0	3
Topic 8. Diseases of the endocrine system. Causes and	15	4	1	3	
mechanisms of development.		4	1	3	
Together according to the content module 2		35	7	21	7
Total hours		75	15	45	15
5 year of education 10 semester					
Content module 1. Diseases of your	g animals,	urinary a	nd blo	ood system	
Topic 1. Diseases of young animals. Classification and	1-2	12	2	6	4
spread of diseases of young animals.		12		0	4
Topic 2. Kidney diseases. Principles of therapy and	3-4	8	2	6	
prevention.		0		0	
Topic 3. Disease of urinary tract. Urolithiasis.	5-6	12	2	6	4
Distribution, general principles of diagnosis and therapy.		12		0	4
Topic 4. Diseases of the blood system. Spreading and	7-8	8	2	6	
principles of diagnostics and treatment.		0		0	
Together according to the content module 1		40	8	24	8
Content module 2. Diseases of nervous system, skin and fury animals.					
	ous system				
Topic 5. Diseases of the nervous system. Spreading and	9-10		2	6	1
		12	2	6	4
Topic 5. Diseases of the nervous system. Spreading and			2	6	4
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment.	9-10		2	6	4
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment. Topic 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy.	9-10	12			4
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment. Topic 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy. Topic 7. Allergic and autoimmune diseases of animal	9-10	12	2		4
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment. Topic 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy.	9-10	12			4
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment. Topic 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy. Topic 7. Allergic and autoimmune diseases of animal skin. General characteristics, methods of diagnosis and treatment.	9-10	8	2	6	
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment. Topic 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy. Topic 7. Allergic and autoimmune diseases of animal skin. General characteristics, methods of diagnosis and treatment. Topic 8. Diseases of fur animals.	9-10	12 8 12 8	2 2	6 6 3	4
Topic 5. Diseases of the nervous system. Spreading and principles of diagnostics and treatment. Topic 6. Functional diseases of the nervous system in animals. Distribution, general principles of diagnosis and therapy. Topic 7. Allergic and autoimmune diseases of animal skin. General characteristics, methods of diagnosis and treatment.	9-10 11-12 13-14	12 8 12	2	6	4

3. Laboratory class topics

No	Name of topics	Hours
order		

	4 year of education, 8 semester	
1.	№ 1. Personal hygiene, safety techniques during research and	2
	treatment of animals. Clinical documentation.	
2.	№ 2. Therapeutic technique. Individual and group methods	2
	of drug administration. External methods of drug use.	
3.	№ 3. Enteral methods of drug administration. Enemas	2
4.	№ 4. Parenteral administration of drugs. Introduction of	2
	medicinal substances into respiratory organs: inhalation,	
	aerosol therapy and aerosol prophylaxis.	
5.	№ 5. Etiotropic and pathogenetic therapy. Novocaine blocks,	2
	anti-stress therapy, reflexology. Non-specific stimulation	
	therapy.	
6.	№ 6. Physiotherapy. Mechanism of action, indications,	2
	method of application of photo-, electro-, hydro- and	
	mechanotherapy.	
7.	№ 7. Clinical-laboratory and special research methods of	2
	thematically sick animals in a clinic with pathology of the	
	cardiovascular system.	
8.	№ 8. Diagnosis, treatment and prevention of myocardial	2
	diseases.	
9.	№ 9. Diagnosis, treatment and prevention of pericardial	2
	diseases.	
10.	№ 10. Diagnosis, treatment and prevention of endocardial	2
	diseases and heart defects.	
11.	№ 11. Clinical-laboratory and special research methods of	2
	thematically sick animals in a clinic with pathology of the	
	respiratory organs.	
12.	№ 12. Diagnosis, treatment and prevention of diseases of the	2
	respiratory tract.	
13.	№ 13. Diagnosis, treatment and prevention of pneumonia in	2
4 .	animals.	
14.	№ 14. Diagnosis, treatment and prevention of non-	2
	inflammatory lung diseases: emphysema, pulmonary edema,	
1.7	pulmonary hemorrhage.	
15.	№ 15. Differential diagnosis, treatment and prevention of	2
	pleural diseases: pleurisy, hydro- and pneumothorax.	
	5 year of education, 9 semester	
16.	№ 1. Clinical laboratory and special methods of research,	4
	treatment and prevention of diseases of the digestive system.	
17.	№ 2. Diagnosis, treatment and prevention of diseases of the	2
	oral cavity, pharynx and esophagus.	
18.	№ 3. Diagnosis, treatment and prevention of ruminant	4
	foregut diseases.	
19.	№ 4. Diagnosis, treatment and prevention of diseases of the	2

	stomach and intestines with colic syndrome. Enteralgia, expansion of the stomach, intestinal flatulence. Chemo- and coprostasis.	
20.	№ 5. Diagnosis, treatment and prevention of diseases of the stomach and intestines: gastritis, gastroenteritis, peptic ulcer disease.	4
21.	№ 6. Diagnosis, treatment and prevention of diseases of the peritoneum (peritonitis, ascites).	2
22.	№ 7. Clinical laboratory and special methods of research, treatment and prevention of diseases of the liver and biliary tract.	4
23.	№ 8. Clinical laboratory and special methods of research and treatment for diseases of the pancreas.	2
24.	№ 9. Clinical laboratory and special methods of research of metabolic diseases in a clinic with thematically sick animals.	4
25.	№ 10. Diagnosis, treatment and prevention of diseases caused by a predominant disorder of protein, carbohydrate and lipid metabolism.	2
26.	№ 11. Clinical-laboratory and special research methods for disturbances in the metabolism of macroelements in animals.	4
27.	№ 12. Differential diagnosis, therapy and prevention of macronutrient metabolism disorders in animals	2
28.	№ 13. Diagnosis, treatment and prevention of animal microelement diseases.	4
29.	№ 14. Diagnosis, treatment and prevention of diseases caused by vitamin metabolism disorders.	2
30.	№ 15. Clinical laboratory and special methods of research, treatment and prevention of diseases of the endocrine system.	3
	5 year of education, 10 semester	
31.	№ 1. Diagnosis, treatment and prevention of neonatal diseases of young animals: hypoglycemia, casein-bezoar disease, colostrum toxicosis, dyspepsia of newborns.	4
32.	№ 2. Diagnosis, treatment and prevention of postnatal diseases of young animals: hypoplastic anemia, parakeratosis of piglets, periodic tympany of calves, bezoar disease, white muscle disease, enzootic ataxia of lambs.	2
33.	№ 3. Clinical-laboratory and special research methods of thematically sick animals in the clinic with diseases of the urinary system.	4
34.	№ 4. Clinical laboratory and special methods of research, treatment and prevention of kidney diseases.	2
35.	№ 5. Clinical laboratory and special methods of research, treatment and prevention of diseases of the urinary tract.	4
36.	№ 6. Differential diagnosis, treatment and prevention of	2

	urolithiasis (urolithiasis).	
37.	№ 7. Clinical and hematological diagnosis, therapy and prevention of anemias: posthemorrhagic, hypoplastic,	4
	hemolytic.	
38.	№ 8. Diagnosis, therapy and prevention of diseases with hemostasis disorders. Hemorrhagic diatheses.	2
39.	№ 9. Clinical-laboratory and special research methods of thematically sick animals with diseases of the nervous system.	4
40.	№ 10. Diagnosis, therapy and prevention of diseases of the brain and spinal cord and their membranes.	2
41.	№ 11. Functional nervous diseases. Epilepsy, eclampsia and neuroses.	4
42.	№ 12. Stress syndrome in animals and its prevention.	2
43.	№ 13. Diagnostic methods and general principles of animal treatment for allergic diseases.	4
44.	№ 14. Diagnosis, treatment and prevention of skin diseases and their derivatives. Sweat gland dysfunction. Autoimmune skin diseases.	2
45.	№ 15. Clinical laboratory and special methods of research, treatment and prevention of non-contagious diseases of fur animals	3

4. Topics for self-study

No	Topic title	Hours
1	Common prophylaxys of internal diseases of animals.	4
	Analisys of keeping animals	
2	Metal indication of reticulum and entering of magnetic rings	2
3	Vascular diseases: arteriosclerosis and thrombosis.	6
	Assignment	
4	Diagnostics, therapy and profilaxys of bronchial asthma in	8
	animals	
5	Analisys of clinical-laboratory and special methods of	4
	mesearument animals with diseases of digestive system	
6	Mechanical and dynamic intestinal obstruction.	4
	Thromboembolism of mesenteric arteries.	
7	Analysis of clinical-laboratory and special methods of	4
	research on animals caused by a predominant disorder of	
	protein, carbohydrate and lipid metabolism.	
8	Analysis of clinical-laboratory and special methods of animal	3
	research for macronutrient metabolism disorders.	
9	Analysis of clinical-laboratory and special methods of	4
	research on animals caused by kidney and urinary system	
	disorders.	

10	Analisys of clinical-laboratory and special methods of	4
	mesearument animals with diseases of blood system.	
11	Analisys of clinical-laboratory and special methods of	4
	mesearument animals with diseases of nervous system.	
12	Analisys of clinical-laboratory and special methods of	4
	mesearument animals with allergic diseases.	
13	Metabolic diseases of fur animals.	4

5. Teaching methods.

- verbal method (lecture, explanation, discussion, instruction, conversation);
- practical method (laboratory, practical classes, statistical processing);
- visual method (explanation, discussion, instruction, conversation);
- work with educational and methodical literature (summarizing, summarizing, annotating, reviewing, writing an essay);
 - video method (distance, multimedia, web-oriented classes);
 - independent work (task performance).

6. Forms of assessment

- exam;
- oral or written survey;
- modular testing;
- team projects;
- abstracts, essays;
- protection of practical works;
- presentations and speeches at scientific events.

NUBiP ofUkraine «Form of test tasks for credit » Faculty of veterinary medicine Form of education full-time Semester 8 Year of education IV ED«Master» Department therapy and clinical diagnostics Discipline «Internal diseases of animals» Lecturer «Approve» Head of department « » 2023

Variant № 1

1. In the veal-hypotrophy there is a weight loss, cyanosis of the mucous membranes, a decrease in skin elasticity, wool is squat. Body temperature is $38.9\,^{\circ}$ C. Breathing is accelerated, tense, superficial. Cough long. The wheezing is wet. In the lower area of the chest, respiratory noises are not listened to. In percussion of the chest, limited areas of blunts were detected on the left. Make a diagnosis

1.	Acute bronchitis
2.	Crupose pneumonia
3.	Chronic bronchopneumonia
4.	Emphisema of lungs

2. Name what infectious disease should be taken into account in the differential diagnosis of primary pharyngitis in pigs

1.	Salmoneliosis
2.	Anthrax
3.	Erysepeloid
4.	Pastereliosis

${\bf 3.}$ Name the disease of the pancakes of ruminants, which can be complicated

1. Tympania rumen	
Acidosis rumen	
3.	Alkalosis rumen
4.	Closing of omasum
5.	Traumatic reticulitis

4. The most pronounced biological action of ultraviolet rays:

1.	Long waves
2.	Medium waves
3.	Short waves
4	mixed

5. Name the disease in horses with a symptom complex of colic at which the sex of the animal is required to consider

1.	Catarrhal enteralgia	
2.	Pinching of the inguinal and mock hernia	
3.	Tromboembolism of mesenteric arteries	
4.	Twist of the gut	

6. With intra-abdominal introduction of piglets-sidunes fix the pelvic extremities upside down. The injection place is

P P	
1.	In the area of the hungry fossa on the left side
2.	between the penultimate pair of nipples at a distance of 3.0 cm from the white line on the right or left side
3.	In the area of the hungry fossa on the right side
4.	between the last pair of nipples at a distance of 1-1.5 cm from the white line on the right or left side

7. List novocaine blockades shown in bronchopneumonia of animals

1.	Lumbar (paranephral)
2.	Stellar sympathetic node
3.	Thoracic visceral nerves and border trunk
4.	Sacral
5.	Paralumbinal

18. What diseases correspond to the given treatment

16. What diseases correspond to the given treatment		
1.Ulcerus disease	A.Acetic acid, sugar, sour milk	
2. Ascitis	B.Furosemide, Calcium Chloride, Digtoxin	

8. Name the heart disease characterized by the growth of connective (fibrous) tissue in the myocardium and its compaction.

(In the answer sheet fit the right answer in one word)

9. The symptom complex of a number of diseases of systems and organs that are accompanied by the accumulation of transudate in the pleural cavity is called

(In the answer sheet fit the right answer in one word)

10 List the drugs used to weaken cough in small animals

	S East the drugs used to weather cough in shints unitarity	
1.	Codein sulfatis	
2.	Silver nitrate	
3.	Ascorbinic acid	
4.	Libexin	
5.	Tetracyclinum	

11. List medicines shown in ulcer disease

Binders	
Diuretic	Γ
Hemostatic	Γ
Painkillers	Γ
Non -steroidal anti -inflammatory	
	Diuretic Hemostatic Painkillers

12. Name the remedies for correction of the pH of scar in alkalosis

1.	Acide milk
2.	Sodium hydrocarbonatis
3.	Sugar
4.	Acetic acid
5.	Alkaline mixes

13. Place in accordance with heart disease symptoms

is. i face in accord	ance with heart disease symptoms	
A.Myocarditis	Body temperature is normal	
	2. Tachycardia is sharply expressed	
	3. Weakening of the heartbeat	
B. Myocardosis	4. Edema develops rapidly, increasing	
	every day of illness	
	5. Pain in the area of the heart	
	6. Swelling develops slowly and often have	
	a variable character	
	7. Often knocking a heartbeat	

14. What is called parenteral administration for therapeutic purposes of various protein substances.

(In the answer sheet fit the right answer in one word)

15. Inflammation of the mucous membrane and the submucosal layer of the nose is called.

(In the answer sheet fit the right answer in one word)

16. What is the complex stomach in newborn calves begins to function from the first day of life?

1	Rumen	
2	Omasum	
3	Reticulum	
4	Abomasum	П

17. List the symptoms characteristic of larynx swelling in animals

1.	Visible mucous membranes hyperemic
2.	Difficulty breathing that is often accompanied by whistle,
	wheezing, moaning
3.	Expiratory shortness of breath
4.	Serous purulent leakage from nostrils
5.	Inspiratory shortness of breath

28. Place in accordance with the symptoms predominantly right or left ventricular heart failure

AAlkalosis	C.Bismuth preparations, mucous decoctions,
rumen	Belladonna preparations, Vikasol, vit u
4.Katarhal	D. Atropine sulfate, tincture of valerian, warm
enteralgia	shallow enemas

19. Due to localization endocartitis is:

1	Valvular
2	Vascular
3	Wall
4	Perforative
5	Warty

20. Lisatomedicines are

1	Pancreatine
2	ASD
3	HydrolysineL-130
4	Sirepar
5	Kampolon

21. Which of these drugs are shown in acute myocarditis

1	Antibiotics
2	Cardiac glycosides
3	Corticosteroids
4	Cold on heart area
5	Infared irradiation

22. What diseases of the pleura correspond to these symptoms?

1.Pleuritis	A. Body temperature is increased by 1-1.5 ° C. At auscultation, friction noises are heard, which are exacerbated by pressure on the chest with a phonendoscope. The cough is weak, painful
2. Hydrothorax	B. Asymmetry of the chest wall. On the damaged side, percussion reveals a fairly strong box sound.
3. Pneumothorax	C.Dumped or blunt sound in the chest area, the area of which is limited by a horizontal upper line. Body temperature is normal or reduced

23. What is called the introduction into the body through intact skin or mucous membrane of medicinal substances in the form of ions by means of galvanic current

(In the answer sheet fit the right answer in one word)

24. What is called myocardial inflammation, characterized by exudative-proliferative processes of interstitial tissue and alternative changes in muscle fibers

(In the answer sheet fit the right answer in one word)

25. List the upper respiratory tract diseases

1.	Pneumonia
2.	Tracheitis
3.	Pleuritis
4.	Laringitis
5.	Meningitis

26. Heamotherapia consists of:

	I
1	Hemotransfusion;
2	Lactotherapy;
3	Isohemotherapy;
4	Heterohemotherapy

27. The replacement therapy is directed:

2: The replacement therapy is unrected.	
1	to replenish the lack of vital substances in the body
2	on the mechanism of disease development
3	to eliminate the cause of illness
4	to normalize the functions of the nervous system

A.Right-ventriculum	1. Pulmonary edema	
failure	2. Stagnation of blood in the liver	l
	3. Hydrothorax and ascites	l
B.Left-ventriculum	4. Shortness of breath	l
failure	5. Cough	Ì
	6. Swelling of subcutaneous tissue	l
	distal extremities	

29. Place in accordance with when shown and contraindicated IR irradiation

contramuicated 1K irradia	HIOH	
A. is shown	1. Malignant tumors	
B. is contraindicated	2. myositis, arthritis	
	3. Hemorrhagic diathesis	
	4. Treatment of wet eczema	
	5. Cachexia	
	6. Bronchopneumonia	

30. To place for which pericarditis is characterized by symptoms:

A. Fibrinous	1. Overflow and tension jugular veins
pericarditis	2. The soreness of the cardiac area
	3. Weakening and diffusion of cardiac
BExudated	impulse.
pericarditis	4. Pericardial noise friction.
	5. Pericardial noises of splash

NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE							
ED«Master» Department			Exa	mticket № 1	Approved		
Specilty	211 –		Therapy and clinical		Fo	r dyscipline	headof department
	nary medic	ine»	diagnostics	<i>(</i> ()		nal diseases of	r
W V CtCIIII	iar y meare	1110//	2021-2022 educ.	animals»			GrushanskaN.G.
						<u>aiiiiiais»</u>	2022
			<u>year</u>				« <u></u> » 2023
			Examinat	tion	qu	estion	
		•	Etiopathogenesis, syr				
2. Basic	c criteria	for d	iagnostics and preve	ntio	n o	f anemia in an	nimals.
			Тестові завда	ння	pis	них типів	
1. Which o	of these patho	logies of	f young animals belong to	7. V	Vhich	of the following dru	igs will you apply first and
neonatal?	_					with acute posthem	
1	The absence				1	Suiferovit	8
2			mbilical cord		2	Aminocapronic a	icid
3	umbilical se	psis			3	Ceancobalamin	
4	omphalitis				4	Vitohepat	
5	Junior toxic	osis			5	Acetylsalicylic ac	eid
2 4	C 4:66	44	us sites in blood called				
			rocites in blood called				emias is caused by a lack of
In th	ne answer sn	eei jii ii	he right answer in one word	cya	cob	alamin feed?	
3 Specify	when renal h	amaturi	a occurs		1	Hemolityc	
1	acute glome			T	2	Posthemorrhagic	
2			 	3	Toxic		
3		tumor a	nd kidney injuries	 	4	Hypoplastic	
4	chronic catu		, j		5	Autoimmune	
5	malignant b	ladder tı	umors	0. 12	/bot	are the main causes	of colomnsio
				7. 1	Упа с 1	Hypercalciemia	or eciampsia
4. List mai	in symptoms	of nephi	ritis		12	Uremia	
1	Edema				3	Toxicosis	
2	Arterial hyp		n		4	Hyperparathyroid	ism
3	Hypoprotein	nemia			5	Hypoparathyroidi	
4	Fever	1		<u> </u>			
5	Low urine of	iensity					ralysis to improve neuromuscular
5 Name th	e drugs used	for the	nurnose of	trar	smis	sion and skeletal mu	iscle work shown
			urinary tract::		1	Quadrisol	
1.	Essenciale			#	2	Strychnin	
2.	Carsil			†	3	Dexamethasone	
3.	Ceftriaxone	;			4	Aminazine	
4.	No-spa			L	5	Proserin	
5.	Biseptol						
6.	Bytryl						
		_					
			symptoms of kidney disease				
A. Nephro	osis		ficant proteinuria (up to				
B. Nephri	itis	5%) 2. Arter	rial hypertension				
C. Nephro	osclerosis		urine density				
			nal body temperature				
5. Hematuria							

	the method of external treatment of animals overheated with water steam, sometimes with
the addition of creoli	n, skewivide, ichthiol, tar, etc. to it: (In the answer sheet fit the right answer in one word)
	the treatment procedure for cooling the body area in the initial stage of inflammation using oaked in cold water or medicines:
	(In the answer sheet fit the right answer in one wordвом)
	he treatment procedure for warming the area of the animal's body with a temperature of 40 can, rye flour, sawdust, rootbulblovs, etc.:
	(In the answer sheet fit the right answer in one word)
4. Name in one word the boiling water pour	
	(In the answer sheet fit the right answer in one word)
	a form of hydrotherapy, which is based on the injected water into the rectum and other part der to assist in diseases of the digestive canal: (In the answer sheet fit the right answer in one word)
6. What research met	thods relate to endoscopic:
1	Bronchoscopy
2	Toracocentesis
3	Laparoscopy
<u>4</u> 5	Cystoscopy
3	Laparocentesis
7. Pleurocentesis is	
1	Puncture of heart bag
2	bladder puncture
3	Pleust puncture
4	Puncture of the abdominal cavity
5	Puncture of the caecum
0.01.4	
8. Subcutaneous inje	Near the joints
2	Near the joints Near the tendon vagina
3	in places where the most developed subcutaneous tissue and little nerves and vessels
4	near cartilage
5	In places of fit of the harness
0.0.1	
9. Probes are used to	remove metal objects from the tracks:
1	Melixetian
2 3	Teliatnikov Wholeblov
4	Khokhlov Cherkasov
5	Koroboy
	KOLODOA
10. To wash the scar	in cattle use probe:
1	Khokhlov
2	Teliatnikov
3	Cherkasov
4	Melixetian
5	Korobov

11. Probets are used to	o remove foreign	objects from	the esophagu	s in cattle::

1	Melixetian
2	Khokhlov
3	Teliatnikov
4	Cherkasky

5 Koro 12. External methods of drug add						
12. External methods of drug add	bov					
12. External methods of urug au	ministration include					
1 Lotio						
2 Poult						
	inocentesis					
	ications					
	roenemas					
3 Wieci	Oellellias					
13. Resident medical history is es	tablished on					
	ulatory sick animal					
	Seriously ill animals					
	italized animals					
1	ding animals					
	ic animals					
3 LAOY	ic ainmais					
14. What drugs are used for vapo	orization:					
	piotics					
	entine					
	onamides					
	entine oil					
5 Tar						
3 141						
15. Arrange according to the nam	ne					
		1 Cle	eansing enemas			
A. For thorough washing of the sto	mach and mestines in dogsk					
Б. To stimulate intestinal peristalsis	ų ž	2. The	ermoregulating enemas			
B. With a temporary or long-term masses	n delay in the excretion of fecal	3. Hy	pertonic enemas			
Γ. To free the rectum from fecal masses before all types of enemas			ptying enemas			
Д. With swelling, dropsy and atonic constipation			paqueous enema			
prophylactic purposes is called in			deep-lying tissues with therapeutic and			
1-			,			
17. What word is missing in the s	entence?					
	wn blood under the skin or intramus	cularly	In the answer sheet fit the right answer in one word			
18. What word is missing in the so	entence					
	other animals of the same species	into an	In the answer sheet fit the right			
animal under the skin or intramusc	ularly		answer in one word			
10 3371 4 1 1 1 1 1 1 1	entence					
19. What word is missing in the se	is the injection of blood from animals of another species into an animal In the answer sheet fit the right					
is the injection of blood from a	annuals of another species into an		under the skin or intramuscularly answer in one word			
	animals of another species into an		answer in one word			
is the injection of blood from a under the skin or intramuscularly	•					
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap	y do the following symptoms corn	respond	to			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative)	y do the following symptoms corn A. The general condition	respond	to animal improves, the resolution of th			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap	A. The general condition inflammatory process according to the condition of the condition o	respond n of the elerates,	animal improves, the resolution of the gas exchange increases, the hemoglobia			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative)	A. The general condition inflammatory process according to the number of ery	respond of the elerates,	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes.			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative)	A. The general condition inflammatory process accontent, the number of ery B. Deterioration of the general conditions.	respond n of the elerates, throcytes	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes.			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative)	A. The general condition inflammatory process accontent, the number of ery B. Deterioration of the generature, depression,	respond n of the elerates, throcytemeral state accelerates	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes. The of the animal's body, increase in body ration of heart rate and respiratory			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative)	A. The general condition inflammatory process accontent, the number of ery B. Deterioration of the generature, depression,	respond n of the elerates, throcytemeral state accelerates	animal improves, the resolution of the gas exchange increases, the hemoglobics and leukocytes.			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative) 2. The second phase (positive)	A. The general condition inflammatory process accordent, the number of ery B.Deterioration of the generature, depression, movements, decrease in the	respond n of the elerates, throcyte neral stat acceler e total ne	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes. The of the animal's body, increase in body ration of heart rate and respiratory number of leukocytes and erythrocytes.			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative) 2. The second phase (positive) 21. Arrange the following pathology	A. The general condition inflammatory process accordent, the number of ery B.Deterioration of the general temperature, depression, movements, decrease in the original conditions in accordance with the conditio	respond of the elerates, throcytes neral stat acceles e total no	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes. The of the animal's body, increase in body ration of heart rate and respiratory number of leukocytes and erythrocytes.			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative) 2. The second phase (positive) 21. Arrange the following pathology.	A. The general condition inflammatory process accontent, the number of ery B.Deterioration of the general temperature, depression, movements, decrease in the original conditions in accordance with	respond of the elerates, throcytes neral stat acceler e total no	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes. The of the animal's body, increase in body ration of heart rate and respiratory number of leukocytes and erythrocytes.			
is the injection of blood from a under the skin or intramuscularly 20. What phase of protein therap 1. The first phase (negative) 2. The second phase (positive) 21. Arrange the following pathology	A. The general condition inflammatory process accontent, the number of ery B.Deterioration of the general temperature, depression, movements, decrease in the original conditions in accordance with	respond n of the elerates, throcytemeral state accelere total metal total metal attrophy t process	animal improves, the resolution of the gas exchange increases, the hemoglobins and leukocytes. The of the animal's body, increase in body ration of heart rate and respiratory number of leukocytes and erythrocytes.			

Skin diseases Peritonitis
6. Tympanium of the scar
7. Intussusception

22. Which dietary feed should we prescribe for which species of animals

1) dogs	a) leguminous hay, wheat bran, hay
2) pigs	б) fresh greens, sour milk, boiled eggs
3) ruminants	в) silage paste, milk, cheese
4) poultry	г) meat broth, milk, row liver

23. Arrange the following types of lamps according to the radiation sources

zer in range the rene ting types or tamps according to the random sources		
A. Sources of UV rays	1. bactericidal Uviol lamps	
B. Sources of IR rays	2. erythematous-uvial lamps	
	3. infrared lamps	
	4. Solux lamps	
	5. mercury-quartz lamps	
	6. light baths	
	7. Minin's lamp	

24. What drugs are included in the diet for diseases of the hematopoietic system

1	Cyancobalamin
2	Vikasol
3	Retinol
4	Ergocalciferol

25. The method of electrotherapy includes:

1	Ultrasound therapy
2	Darsonvalisation
3	Galvanotherapy
4	Faradization

26. The following drugs are used for novocaine blockades:

1	hydrochloride salt of novocaine
2	magnesium sulfate
3	potassium chloride
4	potassium chloride

27. With what salts of microelements feed is enriched with diseases of the hematopoietic system? Give the most complete answer.

1	Phosphorus, iron, fluorine
2	Zinc, sodium, copper
3	Cobalt, copper, iron
4	Sodium, magnesium, iron

28. For diseases of which system, carnivores use drugs: campolon, sirepar, and liver is included in the diet

1	Hemapoetic
2	Cardiovascular
3	Respiratory
4	Urogenital

29. What temperature of novocaine solution is recommended for parenteral administration to animals:

1	37-39 °C
2	35-42 °C
3	40-43 °C
4	43-50 °C

30. In hemomotherapy, blood is stabilized:

· · · ==	
1	5% sodium citrate solution
2	5% sodium carbonate solution
3	5% розчином натрію хлориду

4	5% sodium chloride solution

31. In acute myocarditis, the use of cardiac glycosides:

1	Is used
2	Desired along with corticosteroids
3	Is contraindicated
4	Used along with antibiotics and sedatives

32. What word is missed in a sentence?

According to GV Domrachev distinguish periods	(In the answer sheet fit the right answer in one word)
(stages) of myocarditis development.	

33.Myocardial disease, which is characterized by dystrophic processes in it, which in the future lead to a violation of the basic functions of the heart is-

(In the answer sheet fit the right answer in one word)

34. What diseases are the signs given?

	~~ ~~
1. Myocardosis	A. Inflammation of the endocardium, which is complicated by destructive and necrotic
	changes
2. Myocarditis	B. Diseasecharacterized by the growth of connective tissue in the myocardium and its
	compaction
3. Myocardiosclerosis	C. Inflammation of the heart muscle
4. Endocarditis	D. Myocardial disease, which is characterized by dystrophic processes in it, which in
	the future lead to impaired heart function

35. The enlargement of the heart is characterized by:

1.	Increasing the heart volume due to the accumulation of fluid in the pericardial cavity	
2.	The development of diffuse or local tumors (tumors) in the heart wall	
3.	Increasing the heart cavities with a simultaneous change in the thickness of their walls	
	and the shape of the heart	
4.	Increasing the heart volume due to coronary artery thrombosis	

36. The causes of cough in cattle are...

1.	Congestive phenomena in the brain	
2.	stagnation of venous blood in the lungs	
3.	переповненні рубця, коли останній тисне на діафрагму	
4.	Swelling in the area	

37. What word is missed in a sentence?

The non-span of the batt	duct is postnatal	(In the answer sheet fit the right answer in one word)
incompatible with life.		

38. number of simple heart defects...

1	16
2	8
3	36
4	24

39. What word is missed in a sentence?

Hydropericard is characterized by accumulation in tissues	(In the answer sheet fit the right answer in one word)
and a heart shirt	

40. What word is missed in a sentence?

За класифікацією професора Г.В.Домрачева виділяють	(In the answer sheet fit the right answer in one word)
групи хвороб серцево-судинної системи	

41. Endocarditis should first of all be differentiated from ...

	1.	myocarditis
	2.	catarrhal pneumonia

3.	exudative pleuritis
4.	Hydropericardiumy

42. What diseases correspond to the listed symptoms:

1. Myocardosis	A. Pronounceddepression, appetite is reduced or absent, temperature is high. The pulse is
	large, medium filling. Increasing the first heart tone. At auscultation endocardial noises.
	Symptoms of general heart failure develop rapidly.
2. Hydropericard	B. Severe inhibition, often atony of the pancreas, body temperature within physiological
	fluctuations. The heartbeat is increased. The pulse is low filling. The area of absolute cardiac
	dullness is increased. Heart tones are deaf, the second is weakened. Often the rhythm of
	gallop, embryocardia.
3. Heart dilatation	C. Body temperature is more often normal. Weakening of cardiac impulse, enhancement, splitting or split of the first and weakening of the second heart tone, impaired conduction function (more often in the form of atrioventricular blockade), cardiac (stagnant) edema
	develop slowly and often variable.
4. Acute endocarditis	D. Body temperature is more often normal. Overflow of jugular veins, swelling of the span,
	weak and diffuse heart impetus, increase in the area of heart blunting, tachycardia,
	weakening and muting of the heart tones, sometimes peculiar noises of fun.

43. What changes in the heartbeat correspond to the diseases given?

1. Increse	A. Acute myocarditis
2. Decrease	Б. Acute endocarditis
	B. Hydropericardium
	Γ. Heartenlargement

44. What diseases are the signs given?

1. Hydropericardium	A. inflammation of the endocardium that is complicated by destructive and necrotic
	changes
2. Cardiac enlargement	Б. A disease characterized by the growth of connective tissue in the myocardium and
	compaction
3.Mycardiosclerosis	B. Increase of heart cavities with a simultaneous change in the thickness of their
	walls and shape of the heart.
4. Endocarditis	Γ. hydropericardium

45. In which disease of the cardiovascular system prescribe appropriate treatment:

1. Myocardiodystrophia (myocardosis)	A. Treatment is not effective
2. Traumatic pericarditis	Б. Glucose, diuretic, caffeine, cardiac glycosides
3. Miocardiosclerosis	B. Antibiotics or sulfanilamides

46. Inflammation of the mucous membrane and submucosal layer of the nose is called

(In the answer sheet fit the right answer in one word)

47. Pulmonary inflammation is called

(In the answer sheet fit the right answer in one word)

48. Inflammation of the mucous membrane and submucosal tissue of the bronchi is called

(In the answer sheet fit the right answer in one word)

49. Which of these symptoms refers to the common symptoms of respiratory diseases?

1.	Increasing body temperature.
2.	Cough.
3.	Loss of appetite.
4.	Tachycardia.

50. Inflammation of the mucous membrane, and later - submucosal and cartilage tissue of the larynx is called

(In the answer sheet fit the right answer in one word)

51. Specify the location of the bleeding when leak from the nostrils of the blood bright red with air blisters

1.	Gastric bleeding
2.	Pulmonary bleeding

3.	The bleeding from the frontal sinus
4.	Nosebleeding

52. During training, the horse develops exhaled shortness of breath, rapid fatigue. Abdominal type of breathing, which is accompanied by an "inflammatory chute". Body temperature - $38.1\,^\circ$ C. Cough short, weak. Make a diagnosis

1.	Acute alveolar lung emphysema
2.	Bronchopneumonia
3.	Interstitial pulmonary emphysema
4.	Chronic bronchitis

53. At clinical examination of the horse established: inhibition, stretching of the neck, tenderness in the area of the larynx on palpation, inspiratory shortness of breath, cough. Body temperature is 39.1 °C. Your diagnosis:

1.	Catarrhal laringitis.
2.	Pharingitis.
3.	Rhinitis
4.	Tracheitis.

54. List the upper respiratory tract diseases

1.	Pneumonia
2.	Tracheitis
3.	Pleuritis
4.	Laringitis
5.	Meningitis

55. List diseases that are attributed to inflammatory lung pathology

1.	Pulmonary emphysema
2.	Croupous pneumonia
3.	Lungs swelling
4.	Catarrhal bronchopneumonia
5.	Pulmonary bleeding

56. List the respiratory system in which antibiotic therapy is shown

1.	Pulmonary emphysema
2.	Croupous pneumonia
3.	Pulmonary bleeding
4.	Laryngeal swelling
5.	Catarrhal bronchopneumonia

57. What lung diseases correspond to the given symptoms?

1.Pulmonary bleeding	A. Body temperature is increased by 1-2°C. Cough is frequent muffled.
	Auscultation of the lungs reveal crepitation, wet wheezing.
2 Dulmanany amphysama	B. The blood flows from both nasal passages, light red with impurities of the
2.Pulmonary emphysema	bubble.
	C.Awell -visible retraction of intercostal spaces and abdominal wall along the
3. Catarrhal bronchopneumonia	costal arc, where the depression ("inflammatory chute") is formed. In the
	percussion of the pulmonary field - tympanic or box sound.

58. What diseases of the upper respiratory tract correspond to these symptoms?

1. Bleeding from the	A. A slight increase in body temperature. The voice is hoarse, low. Strong, dry, sharp	
nose	and painful cough.	
2. Lammaritie	B. Periodic leakage from the nose (more often from one nostril) mucous purulent	
2. Laryngytis	exudate. Leaks are exacerbated when head lower.	
3. Frontitis	C.Leakage of blood from one or two nostrils. Blood flowing red, not foaming.	

59. What diseases of the pleura correspond to these symptoms?

1. Pleuritis	A. Body temperature is elevated by 1-1.5 ° C during auscultation, friction noises are heard, which are exacerbated by pressure on the chest with a phonendoscope. Cough is weak, painful.
2. Chest dropsy	B. Asymmetry of the chest wall. On the damaged side of the percussion find a fairly strong box sound.

3. Pneumothorax	C.Blunt or dull sound in the chest area, the area of which is limited by the horizontal
	upper line. Body temperature is normal or reduced.

60. Place in accordance with localization given diseases

1. Diseases of the upper respiratory tract	A. Hyperaemia et oedema pulmonum
2. Lung diseases	B. Hydrothorax
3. Diseases of the pleura	C. Tracheitis

Control questions (4 year of education)

- 1. Name the methods of therapy and describe them.
- 2. Describe epiotropic therapy.
- 3. Describe pathogenetic therapy.
- 4. Describe symptomatic therapy.
- 5. Define dispensation and describe its stages.
- 6. Describe the external methods of using medicines.
- 7. Describe the enteral methods of drug administration.
- 8. Describe the parenteral methods of drug administration.
- 9. Provision of medical assistance for esophageal obstruction in animals.
- 10. Stomach and prestomach lavage technique in animals.
- 11. Metal indication of the grid and introduction of magnetic rings.
- 12. Enemas, their types and application technique.
- 13. Diet therapy, its essence, features in diseases of various organs and systems.
- 14. Mechanotherapy, its essence, features of application.
- 15. Physiotherapy, its essence, features of application.
- 16. Protein therapy, its essence, features of application.
- 17. Describe novocaine blockades, indications and contraindications.
- 18. Mechanism of action, indications, method of using electrotherapy.
- 19. Mechanism of action, indications, method of using aerosol therapy.
- 20. Symptoms and syndromes for diseases of the cardiovascular system.
- 21. Differential diagnosis, treatment and prevention of myocardial diseases.
- 22. Describe the pathogenesis and symptoms of acute myocarditis.
- 23. Treatment and preventive measures for myocarditis.
- 24. What are the causes and symptoms of myocardosis.
- 25. Treatment and preventive measures for myocardosis.
- 26. Differential diagnosis of pericardial diseases.
- 27. Describe the etiology and pathogenesis of traumatic pericarditis.
- 28. Describe the causes, symptoms and preventive measures for hydropericarditis.
- 29. Describe the causes, symptoms and measures of therapy for endocarditis.
- 30. Differential diagnosis of heart defects.
- 31. Symptoms and syndromes of respiratory diseases.
- 32. Describe the causes, symptoms and measures of therapy for diseases of the respiratory tract.
- 33. Differential diagnosis of bleeding from the respiratory tract.
- 34. Describe the causes, symptoms and preventive measures for rhinitis.
- 35. Describe the etiology, pathogenesis of catarrhal bronchopneumonia
- 36. Describe the principles of diagnosis, therapy and prevention of catarrhal bronchopneumonia.
- 37. Causes and differential diagnosis of pneumonia.
- 38. Describe the principles of diagnosis, therapy and prevention of fibrotic (croupous) pneumonia.
- 39. What are the causes and symptoms of pulmonary edema.
- 40. Describe the principles of diagnosis, therapy and prevention of pulmonary edema.
- 41. What are the causes and symptoms of alveolar and interstitial emphysema.
- 42. Describe the principles of diagnosis, therapy and prevention of alveolar and interstitial emphysema.

- 43. Describe the etiology, pathogenesis of pleurisy.
- 44. Describe the principles of diagnosis, therapy and prevention of pleurisy.
- 45. Differential diagnosis, treatment and prevention of hydrothorax.

Control questions (5 year of education)

- 1. What are the common symptoms of liver diseases and what is their essence?
- 2. Describe the pathogenesis and symptoms of acute parenchymal hepatitis.
- 3. What are the principles of therapy and prevention in acute parenchymal hepatitis?
- 4. Describe the etiology and pathogenesis of toxic liver dystrophy.
- 5. Describe the pathogenesis and symptoms of liver amyloidosis.
- 6. Describe the causes, symptoms and preventive measures of liver cirrhosis.
- 8. What are the causes of ketosis in cows, ewes and sows?
- 9. Describe the pathogenesis of ketosis.
- 10. Describe the principles of diagnosis, therapy and prevention of ketosis.
- 11. Describe the etiology, pathogenesis of diabetes.
- 12. What are the causes of diabetes insipidus?
- 14. Describe the main causes and symptoms of myoglobinuria.
- 15. What are the principles of therapy and prevention of myoglobinuria?
- 16. Describe the etiology, pathogenesis of osteodystrophy and what pathological and anatomical changes does this disease cause?
- 18. What are the treatment and prevention of osteodystrophy?
- 19. Describe the causes, pathogenesis and symptoms of grassland tetany.
- 20. What are the principles of therapy and prevention of pasture tetany?
- 21. Name the most common hypovitaminoses among animals.
- 22. Describe the main causes, pathogenesis and symptoms of hypovitaminosis A.
- 23. What are the causes and symptoms of hypovitaminosis E?
- 24. Describe the causes, pathogenesis and symptoms of hypovitaminosis C.
- 25. What are the symptoms and therapy of hypovitaminosis K?
- 26. Name hypovitaminoses of group B.
- 27. Name the pathognomonic symptoms of group B hypovitaminosis.
- 28. Principles of therapy and prevention of hypervitaminosis in farm animals.
- 29. How dangerous is an excess of vitamins in the body of animals?
- 30. How are anemias of animal origin classified?
- 31. What are the symptoms of posthemorrhagic anemia?
- 32. Prevention of post-hemorrhagic anemia.
- 33. Describe the pathogenesis and symptoms of hemolytic anemia.
- 34. What are the treatments and prevention of hemolytic anemia?
- 35. What are the causes and pathogenesis of hypoplastic anemia?
- 36. What is the prevention of hypoplastic anemia?
- 37. What is the pathogenesis of aplastic anemia?
- 38. What are the causes of hemoglobinuria in cows?
- 39. Symptoms of postpartum hemoglobinuria in cows.
- 40. What is the therapy of hemoglobinuria in cows?
- 41. What are the causes of thrombocytopenia?
- 42. What are the therapy and prevention of thrombocytopenia?
- 43. What is hemophilia and what are its causes?
- 44. What is the pathogenesis of hemophilia?
- 45. What is hemorrhagic disease and what are its causes?
- 46. What are the symptoms of hemorrhagic disease?
- 47. Prevention of hemorrhagic disease.
- 48. Name the causes of pyelitis.
- 49. What are the symptoms of pyelitis?

- 50. What is pyelitis therapy?
- 51. What are the main causes and symptoms of bladder spasm?
- 52. What is the prevention of bladder spasm?
- 53. Describe the pathogenesis of bladder paresis and paralysis.
- 54. Name the symptoms of paresis and paralysis of the bladder.
- 55. Prescribe treatment for paresis and paralysis of the bladder.
- 56. What are the causes and symptoms of urocystitis?
- 57. What is the therapy for urocystitis?
- 58. The main causes of pathogenesis and symptoms of urethritis.
- 60. What is the prevention of urethritis?
- 61. Sunstroke, its etiology, diagnosis.
- 63. How to prevent sunstroke?
- 64. What are the symptoms of heatstroke? How to differentiate sunstroke from heatstroke?
- 66. Prescribe treatment for thermal overheating.
- 67. What are the symptoms of meningoencephalitis?
- 68. Prescribe treatment for meningoencephalitis.
- 69. What are the types of stress?
- 71. What is stress prevention?
- 72. Describe the causes and symptoms of neuroses.
- 73. What are the therapy and prevention of neuroses?
- 74. Describe the etiology and symptoms of meningomyelitis.
- 75. What is animal therapy and prevention for meningomyelitis?

8. Distribution of points received by students

The assessment of students' knowledge and skills is conducted by means of a 100-point scale and is converted into national grades according to Table 1 of the current *Exam and Credit Regulations at NULES of Ukraine*.

Student rating,	National mark for the assembly results	
points	exam	credits
90-100	excellent	4000
74-89	good	pass
60-73	satisfactorily	
0-59	unsatisfactorily	fail

To determine a student's rating in the discipline \mathbf{R}_{DIS} (up to 100 points), the received assessment rating \mathbf{R}_{A} (up to 30 points) is added to the academic performance raiting \mathbf{R}_{AP} (up to 70 points): $\mathbf{R}_{DIS} = \mathbf{R}_{AP} + \mathbf{R}_{A}$.

9. Teaching and learning aids

- e-learning course of the discipline (https://elearn.nubip.edu.ua/course/view.php?id=2259

https://elearn.nubip.edu.ua/course/view.php?id=2260);

- lectures and presentations (in electronic form);
- textbooks, manuals, tutorials;
- guidelines for studying a discipline by full-time and part-time students; internship programmes of the discipline (if included in the curriculum).

10. Recommended sources of information.

Basic

- 1. Внутрішні незаразні хвороби тварин: підручник / Цвіліховський М.І., Береза В.І., Січкар В.С. та ін.; За ред. М.І. Цвіліховського. 3-є вид. К.: Аграрна освіта, 2014. 614 с.
- 2. Внутрішні хвороби тварин: практикум / Цвіліховський М.І., Бойко Н.І., Голопура С.І. та ін.; за ред. М.І. Цвіліховського. К.: ЦП КОМПРИНТ, 2016. 224 с.
- 3. Внутрішні хвороби тварин / Левченко В.І., Влізло В.В., Кондрахін І.П. та ін.; за ред. В.І. Левченка. Біла Церква, 2015. Ч.2. 610 с.

Secondary

- 1. Stephen J. Ettinger, Edward C. Feldman, Etienne Cote Textbook of Veterinary Internal Medicine. Elsevier Health Sciences, 2016. 2736 p.
- 2. R.A. McPherson, M.R. Pincus Henry's Clinical diagnosis and management by laboratory methods. Elsevier. 2022. 1663 p.
- 3. Richard W. Nelson, C. Guillermo Couto Small Animal Internal Medicine. Elsevier; 6th edition, 2019. 1608 p.
- 4. Leah Cohn, Etienne Cote Cote's Clinical Veterinary Advisor: Dogs and Cats. Mosby, 2019. 1680 p.

11. Information resourses

- 1. http://dspace.nubip.edu.ua:8080/jspui/ Electronic library of NUBiP of Ukraine
- 2. http://www.nbuv.gov.ua/e-journals/nd/ Scientific reports of the National University of Bioresources and Nature Management of Ukraine
- 3. http://www.nbuv.gov.ua/ National Library of Ukraine named after V.I. Vernadskyi
- 4. https://www.merckvetmanual.com/ Merck Veterinary Manual