

**Questions of State certification in specialties for students of the direction of  
education 5440100-Veterinary medicine (by type of activity)**

**III. General subjects:**

<b>№</b>	<b>Subjects name</b>	<b>Number</b>
<b>2.09</b>	<b>AnimalPathophysiology</b>	<b>1-5</b>
<b>2.10</b>	<b>Pathological anatomy, necropsy and forensic veterinary examination</b>	<b>6-12</b>
<b>2.11</b>	<b>Clinicaldiagnosticsandradiology</b>	<b>13-19</b>
<b>2.12</b>	<b>Veterinaryobstetrics</b>	<b>20-26</b>
<b>2.13</b>	<b>Operative surgery and topographic anatomy</b>	<b>27-31</b>
<b>2.14</b>	<b>Veterinary surgery</b>	<b>32-81</b>

**IV. Subjects by specialty:**

<b>№</b>	<b>Subjects name</b>	<b>Number</b>
<b>3.01</b>	<b>Organization and legislation of veterinary job</b>	<b>82-87</b>
<b>3.02</b>	<b>Veterinaryandsanitaryexamination</b>	<b>88-94</b>
<b>3.03</b>	<b>Veterinarypharmacologyandtoxicology</b>	<b>95-149</b>
<b>3.04</b>	<b>Internalnon-communicablediseases</b>	<b>150-199</b>
<b>3.05</b>	<b>Epizootologyandinfectiousdiseases</b>	<b>200-249</b>
<b>3.06</b>	<b>Parasitologyandinvasivediseases</b>	<b>250-300</b>

**Questions of State certification in specialties for graduates of the 2022-2023 academic year of the direction of education 5440100-Veterinary (by type of activity)**

1. Causes, types of atrophy, hypertrophy
2. Causes of the disease, course and stages of development
3. Death, types and changes after death
4. Inflammation, etiology, pathogenesis and course
5. Resistance and reactivity of the body
6. Theories explaining the etiology of tumors, types and pathology
7. Etiology, types and pathology of sepsis
8. Etiology, pathogenesis, pathoanatomical and comparative diagnosis of Newcastle disease
9. Croupous pneumonia, etiology, stages of development and pathology
10. Pasteurellosis of pigs, etiology, pathogenesis, pathology, pathoanatomical and comparative diagnostics
11. Sheep pox, etiology, pathology, pathoanatomical and comparative diagnostics
12. Organopathology of tuberculosis, pathoanatomical changes in the lungs, serous membranes, udder, liver
13. History and stages of development of clinical diagnostics
14. Animal diagnostic methods
15. Order of clinical examination of animals
16. Examination of the respiratory system
17. Chest examination
18. Examination of the cardiovascular system
19. Examination of blood vessels
20. Miscarriages. Causes, types and complications of miscarriages
21. Functions of the genital organs of males
22. Methods for determining the pregnancy of animals.
23. Methods of artificial insemination of cows
24. Diseases and anomalies of newborn animals.
25. Phenomena of the sexual cycle.
26. Causes of birth pathologies, obstetric care
27. Significance of anesthesia, pain and its effect on the body.
28. Technique of ovariectomy in females: indications, fixation, anesthesia, technique.
29. Special seams and techniques for their implementation.
30. Technique of gastrotomy in dogs: indications, fixation, anesthesia, instruments.
31. Rumenotomy technique in ruminants
32. Classification, etiology, clinical signs and treatment of injuries.
33. Causes, clinic, types, consequences, treatment of hematoma
34. Etiology, types, degrees, clinical signs and treatment of burns in animals
35. Diseases of the cornea

36. Essence, purpose of chemical antiseptics
37. Causes of paraphimosis, clinical signs, consequences and methods of treatment
38. Eye examination methods for eye diseases
39. Differential diagnosis and methods of treatment of necrosis in animals.
40. Types, causes, clinic, degrees, treatment and consequences of bruises in animals.
41. Methods of treatment of inflammation with novocaine, methods of application
42. Subject, purpose and tasks of general veterinary surgery
43. Periods of development of surgical infection
44. Pathogens, conditions causing actinomycosis, clinic and methods of treatment.
45. What do you understand by biological antiseptic?
46. Etiology, clinic and course of tendovaginitis
47. Mechanical wound treatment
48. Tissue therapy biostimulants, homogenizer, indications and contraindications, biological test
49. Principles of treatment of chronic inflammations, massage, acute irritating ointments and liniments
50. Describe the types of injuries
51. The concept of veterinary ophthalmology
52. Classification, clinic, treatment and prevention of fistulas in animals
53. Describe bone fractures
54. Local reaction of the body to injury
55. Veterinary orthopedics
56. Give the concept of phimosis, its causes, clinical signs, consequences and methods of treatment
57. Bruised joints
58. Statics and dynamics of limbs
59. Give the concept of purulent arthritis, its causes, clinical signs, consequences and methods of treatment
60. Describe the healing of wounds with primary, secondary intention and scabs.
61. Types of lameness, give a concept to them
62. Etiology, clinic and treatment of balanoposthitis and balanitis
63. Paralysis of the facial nerve - methods of diagnosis and treatment
64. Purulent inflammation of the fetlock.
65. Spastic paresis
66. Autohemotherapy - indications and contraindications, bioassay
67. The concept of surgical infections and their types
68. Main types of anaerobic infection, etiology, diagnosis and treatment methods
69. Trauma is aseptic, septic, infectious, normergic, hyperergic and hypoergic inflammation.

70. Joint inflammation, causes, pathological changes, treatment
71. Classification, clinic, treatment and prevention of inflammation
72. Myositis and myopathosis
73. Purulent diseases of the joints, etiology, treatment
74. Treatment of abscesses and phlegmon by the surgical method
75. Etiology, treatment of ophthalmitis
76. Treatment of keratitis and conjunctivitis
77. Types of keratitis
78. Types of conjunctivitis
79. Aerobic infections and their types
80. Etiology and methods of treatment of bone fractures
81. Clinical signs and methods of treatment of acute aseptic inflammations
82. Planning of veterinary activities
83. Organization of veterinary events
84. Economics of veterinary activities and its types
85. Financing of veterinary activities
86. Material support of veterinary events
87. Organization of the construction of veterinary facilities
88. Veterinary and sanitary examination of meat and meat products for parasitic diseases
89. Veterinary and sanitary control during slaughter and preliminary processing of poultry carcasses
90. Veterinary and sanitary examination of eggs
91. Veterinary and sanitary examination of sausages
92. Veterinary and sanitary assessment of products obtained from poisoned (infected) animals
93. Enterprises carrying out preliminary processing of carcasses of slaughter animals, and sanitary and hygienic requirements for them
94. Pretreatment of carcasses of slaughter animals
95. General classification of drugs acting on the central nervous system
96. Use and importance of analgesics or general painkillers
97. Antibiotics, their positive and negative properties
98. Classification of antimicrobials
99. Side effects of the use of chemotherapeutic drugs and ways to eliminate them
100. Toxicology of insecticides and acaricides
101. Immunostimulants, their importance in animal husbandry and veterinary medicine
102. Causes, treatment and prevention of poisoning with synthetic pyrethroids
103. The degree of danger and toxicity of poisonous substances according to LD<sub>50</sub>.
104. Antidote therapy for poisoning
105. Toxic effects of pesticides and measures to eliminate them
106. Pathogenesis, symptoms, diagnosis, treatment and preventive measures of toxicosis arising from snake and scorpion bites

107. Animal poisoning with industrial waste, treatment and prevention measures
108. Causes, diagnosis, treatment and prevention of poisoning
109. Negative conditions that occur in the body of animals under the influence of pesticides
110. Toxicodynamics of toxic substances in animals
111. Toxicokinetics of toxic substances in animals
112. Methods for determining the indicators of the amount of toxic substances by LD<sub>0</sub>, LD<sub>50</sub> and LD<sub>100</sub>.
113. Poisonous plants and causes of poisoning by them, prevention and treatment
114. Treatment and prevention of nitrate and nitrite poisoning
115. Poisoning by fluorine and its compounds, treatment and preventive measures
116. Causes, prevention and treatment of gossypol poisoning in animals
117. The main tasks of modern veterinary toxicology
118. The main toxic substances affecting the reproductive activity of animals
119. Toxic substances that have a negative effect on the immune system of animals
120. Explain the procedure for obtaining samples for laboratory analysis from sick animals with suspected poisoning.
121. The procedure for taking samples for laboratory analysis in animals that have died from poisoning
122. Poisoning with table salt. Treatment and preventive measures
123. Causes, prevention and treatment of poisoning with organophosphorus compounds
124. Causes, prevention and treatment of poisoning with organochlorine compounds
125. Herbicide poisoning, prevention and treatment
126. Causes, prevention and treatment of defoliant poisoning
127. Diagnosis, treatment and preventive measures of poisoning with mercury compounds
128. Ways and methods of rapid removal of toxic substances from the body
129. The course of poisoning in the body and measures to eliminate them
130. Toxicology of zoocides
131. The concept of toxicodynamics.
132. What do you understand by toxicokinetics?
133. Methods for diagnosing animals with poisoning
134. Measures to prevent poisoning
135. Veterinary and sanitary examination of animal meat products with signs of poisoning
136. Treatment and prevention of poisoning by plants containing cardiac glycosides
137. Causes, prevention and treatment of carbamate poisoning

138. Indicate the allowable amount of nitrates and nitrites in the feed of farm animals
139. Comparative diagnostics in case of poisoning
140. Requirements for animals after the use of chemoprophylactic drugs
141. Prevention and treatment of phenol poisoning in farm animals
142. Lethal doses of nitrites and nitrates in animals
143. Veterinary and sanitary examination of poisoned products of animal origin
144. Treatment and prevention of animal poisoning with snake venom
145. Pyrethroid preparations
146. Pathogenesis, symptoms, diagnosis and treatment of snake bites
147. Treatment and prevention of animal poisoning by industrial waste
148. Causes, diagnosis, treatment and prevention of poisoning
149. Negative impact of pesticides on the animal organism
150. Toxicodynamics of toxic substances in animals
151. Theoretical foundations of general prevention of internal non-communicable diseases
152. Clinical examination - the organizational basis of the general prevention of internal non-communicable diseases
153. Fundamentals of general therapy and therapeutic technique
154. Diseases of the heart and vascular system
155. Diseases of the respiratory system
156. Diseases of the digestive system
157. Diseases of the proventriculus
158. Diseases of the stomach and intestines
159. Liverdiseases
160. Diseases of the urinary system
161. Diseases of the blood system
162. Diseases caused by violation of protein, carbohydrate and fat metabolism
163. Diseases caused by disorders of mineral metabolism
164. Enzootic diseases
165. Hypovitaminosis
166. Non-infectious diseases of young animals
167. Food toxicosis
168. Diseases of the central nervous system
169. Non-communicable diseases of birds
170. Treatment of hypo- and atony of the proventriculus of cattle
171. Treatment of colic in horses
172. Prevention of hepatitis of productive cattle
173. Treatment and prevention of bronchopneumonia
174. Treatment and prevention of lobar pneumonia
175. Dairy cow ketosis
176. Treatment and elimination of rickets in calves
177. Treatment and elimination of osteodystrophy
178. Prevention of endemic diseases

179. Clinical examination of dairy cows
180. Poisoning of pigs and poultry with table salt
181. Poisoning of cattle with urea
182. Poisoning of cattle with cotton waste
183. Treatment of calf dyspepsia
184. Group prophylactic treatment of protein metabolism disorders
185. Group prophylactic treatment of mineral metabolism disorders
186. Group prophylactic treatment of vitamin metabolism disorders
187. Group prophylactic treatment of carbohydrate metabolism disorders
188. Treatment of poisoning from Trichodesma horses
189. Treatment of heliotroptoxicosis in cattle
190. Prevention of rickets of birds
191. Diseases of the pericardium: pericarditis, hydropericardium
192. Myocardial diseases: myocarditis, myocardosis
193. Diseases of the endocardium. Heart defects.
194. Vascular diseases
195. Diseases of the upper respiratory tract: rhinitis, laryngitis, bronchitis
196. Diseases of the lungs: edema and hyperemia of the lungs, bronchopneumonia, croupous pneumonia. Emphysema of the lungs. Pleurisy. Pneumothorax
197. Methods of pathogenetic treatment of respiratory diseases
198. Diseases of the oral cavity: stomatitis, pharyngitis
199. Diseases of the esophagus
200. Treatment of hypo- and atony of the proventriculus
201. Subject, tasks and history of development of epizootology
202. Infection and infectious diseases
203. Disinfection, deratization and pest control measures
204. General and special prevention of infectious diseases
205. Anthroponoses
206. Zooanthroponoses
207. Anthrax
208. Emphysematous carbuncle
209. Tetanus
210. Brudzot
211. Infectious enterotoxemia
212. Tuberculosis
213. Brucellosis
214. FMD
215. Rabies
216. Aujeszky's disease
217. Highly pathogenic avian influenza
218. Swine flu
219. Horse Flu
220. Rinderpest
221. Pasteurellosis

- 222. Leptospirosis
- 223. Listeriosis
- 224. Ringworm
- 225. Paratuberculosis
- 226. Campylobacteriosis
- 227. Bovine leukemia
- 228. Bovine viral diarrhea
- 229. Nodular dermatitis of cattle
- 230. Plague of camels
- 231. Horse scabies
- 232. Myxomatosis
- 233. Equine rhinopneumonitis
- 234. Salmonella abortion of mares
- 235. Erysipelas of pigs
- 236. Salmonellosis of young animals
- 237. Colibacillosis of young animals
- 238. Newcastle disease of birds
- 239. Avian laryngotracheitis
- 240. Marek's disease of birds
- 241. Pullorosis of birds
- 242. Plague of carnivores
- 243. Rabbit myxomatosis
- 244. Smallpox
- 245. Botulism
- 246. Necrobacteriosis
- 247. Gas gangrene
- 248. Vesicular stomatitis
- 249. Equine infectious anemia
- 250. Microsporidiosis
- 251. Parasitology and its components
- 252. A brief history of the development of parasitology
- 253. Fasciolosis
- 254. Paramphistomatosis
- 255. Orientobilharziasis
- 256. Dicrocoeliosis
- 257. Birds
- 258. Bovine cysticercosis
- 259. Cysticercosis of pigs
- 260. Echinococcosis
- 261. Coenurosis
- 262. Monieziosis
- 263. Equine parasarcoidosis
- 264. Ascariasis of pigs
- 265. Ascariasis of birds
- 266. Canine ascariasis



- 267. Equine oxyurosis
- 268. Heterocidosis of birds
- 269. Delyafondiosis of horses
- 270. Horse alfortiosis
- 271. Horse strongylosis
- 272. Gemonhoz
- 273. Marshallagiasis
- 274. Chabertiosis
- 275. Nematodirosis
- 276. Dictyocaulosis of sheep
- 277. Thelaziosis of cattle
- 278. Trichinosis pigs
- 279. Macracanthorhynchosis of pigs
- 280. Polymorphosis, phylcolosis
- 281. Bovine piroplasmosis
- 282. Francaiellois of cattle
- 283. Theileriosis of cattle
- 284. Eimeriosis of birds
- 285. Eimeriosis of rabbits
- 286. Su-Auru disease in camels, horses and donkeys
- 287. Trypanosomosis of horses
- 289. Toxoplasmosis
- 290. Canine leishmaniasis
- 291. Histomonosis
- 292. Sarcocystosis
- 293. Anaplasmosis of cattle
- 294. Knemidocoptosis of birds
- 295. Psoroptosis of sheep
- 296. Sarcoptosis
- 297. Hypodermatosis of cattle
- 298. Estroz sheep
- 299. Equine gastrophyllosis
- 300. Mallophagosis

**Dean of faculty**

**Kh.B.Niyozov**