- 1. Classification of stimulators by force.
- 2. Classification of stimulators according to biological compliance.
- 3. Excitability and its value.
- 4. Laws of stimulation of excitable tissues: force, time.
- 5. Force law
- 6. Time law
- 7. Time and force curve.
- 8. Chronaxia.
- 9. Threshold force.
- 10. Reobase.
- 11.Biopotentials.
- 12. Their of biopotentials.
- 13.RMP. Its value.
- 14. Method of registration of RMP
- 15.AMP. Its value.
- 16. Method of registration of AMP
- 17. Phases of AMP.
- 18. Phases of excitability.
- 19. Function of muscles
- 20. Structure of the muscles
- 21. Classification. Of the muscles
- 22. Types of skeletal muscles.
- 23. Single muscle contraction. Mechanism.
- 24. Tetanus and its types. Mechanism.
- 25. Function of nerves.
- 26. Structure of the muscles
- 27. Classification of nerves according to structure.
- 28. Laws of transmission of excitation on the nerves
- 29. Synapse.
- 30. The structure of the synapse.
- 31. Transmission of excitation in the synapse.
- 32.EPSP, mechanism of appearing
- 33. IPSP, mechanism of appearing
- 34. Cholinergic substances
- 35. Adrenoreactive substances
- 36. Autonomic nervous system
- 37. Parts of ANS.
- 38. Differences between ANS and somatic nervous system.
- 39. Autonomic nervous system
- 40. Classification of neurons.
- 41. Convergence, mechanism
- 42. Divergence, mechanism
- 43. Irradiation, mechanism
- 44. Functions of spinal cord.
- 45. Functions of medulla oblongata.

- 46. Classification of tonic reflexes (Magnus)
- 47. Functions of cerebellum.
- 48. Functions of reticular formation
- 49. Classification of tonic reflexes (Magnus)
- 50. Functions of hypotallamus.
- 51. Reflex. Its physiological meaning.
- 52.Links of reflex
- 53. Differences between somatic and vegetative reflex.
- 54. Somatic reflex
- 55. Vegetative reflex
- 56.FUS. Links of FUS.
- 57. Physiological meaning of FUS.
- 58.ECG. Its physiological meaning.
- 59.Intervals and waves of ECG.
- 60. Cardiac conduction system.
- 61. Cardiac cycle.
- 62.FUS. Links of FUS.
- 63. Phases of systole (cardiac cycle)
- 64. Phases of diastole (cardiac cycle)
- 65.RR-interval on ECG.
- 66. Atrioventricular delay, its meaning, show on ECG.
- 67. Show on ECG systole and diastole of auricles and ventricle
- 68. Tachycardia. Show on ECG.
- 69.Bradicardia. Show on ECG.
- 70. Miocardial properties
- 71. Automatism of miocard
- 72. Auscultation.
- 73. Phonocardiogram. Analysis of PCG.
- 74. Arterial pressure. (systolic, dyastolic).
- 75. Arterial pulce
- 76. Venus pulce.
- 77. Auscultation.
- 78. Phonocardiogram. Analysis of PCG.
- 79. The action of adrenalin on the vessels.
- 80. The action norepinephrine on the vessels.
- 81. Show on the scheme blood components.
- 82.Osmotic pressure.
- 83.Oncotic pressure.
- 84.Blood Ph. Acidosis and alkalosis.
- 85. Acidosis and alkalosis (compensated and uncompensated)
- 86. Respiratory acidosis and alkalosis.
- 87. Metabolic acidosis and alkalosis.
- 88.Blood proteins. Their functions.
- 89. Red blood cells. Functions
- 90. Anemia, erithropenia, erythrocytosis.

- 91. Show on the scheme blood components.
- 92.Osmotic pressure.
- 93.Oncotic pressure.
- 94. Hemoglobine. Functions.
- 95. White blood cells. Functions.
- 96. Leukocytosis, leukopenia, leukopoesis.
- 97. Phagocytosis. Its stages.
- 98.Blood groups.
- 99. Methods for determining blood groups.
- 100. Rhesus factor.
- 101. Rhesus-conflict
- 102. Blood transfusion samples.
- 103. Function of the lungs
- 104. Breathing and its main components
- 105. Mechanisms of inspiration
- 106. Mechanisms of expiration.
- 107. Mechanisms of deep expiration.
- 108. Lung volumes.
- 109. Lung capacities.
- 110. Types of ventilation.
- 111. The mechanism of gas exchange in the lungs.
- 112. Factors affecting on gas exchange in the lungs
- 113. Blood gases.
- 114. The amount of carbon dioxide in arterial and venous blood, its compounds
- 115. The amount of oxygen in arterial and venous blood, its compounds
- 116. The concept of hypoxia.
- 117. The concept of hypoxemia.
- 118. The concept of hypercapnia.
- 119. The concept of hypocapnia.
- 120. Blood gases.
- 121. The amount of carbon dioxide in arterial and venous blood, its compounds
- 122. The amount of oxygen in arterial and venous blood, its compounds
- 123. Respitatory center, localization, structure.
- 124. Respitatory center, functions.
- 125. Afferent connections of RC.
- 126. Efferent connections of RC.
- 127. Connections of motoneurons with respiratory muscles.
- 128. Functional system supporting optimal content of gasses in blood.
- 129. Digestion, functions of digestive tract
- 130. Saliva, amount, composition, functions.
- 131. Gastric juice, amount, composition, functions.
- 132. The role of hydrochloric acid and mucus
- 133. The secretory function of the pancreas.

- 134. Quantity, composition of pancreatic juice
- 135. Bile secretion and excretion.
- 136. Impotance of bile.
- 137. Intestinal juice, amount, composition, functions.
- 138. The movement of the small intestine. Types.
- 139. Metabolism and energy.
- 140. Energy balance.
- 141. Free and bound energy.
- 142. Basic metabolism.
- 143. Working gain.
- 144. Hess law.
- 145. Caloric value of nutrients.
- 146. The principles of the diet
- 147. Functional system, supporting the constancy of body temperature.
- 148. The temperature of different areas of the skin and internal organs.
- 149. Heat production. The role of individual organs in the processes of heat production.
- 150. Heat transfer, methods of heat transfer. The role of individual organs in heat transfer
- 151. Organs of excretion (kidney, lungs, skin, digestive tract and mammary glands),
- 152. Participation of excretion organs in maintaining the homeostasis of the internal environment.
- 153. Functions of kidneys.
- 154. Nephron as a morphofunctional unit of the kidneys, its elements.
- 155. Processes that take place in the nephron (filtration, secretion, reabsorption, incretion).
- 156. The concept of oliguria, polyuria, anuria.
- 157. Diabetes insipidus.
- 158. Physiological classification of hormones (liberins, statins, tropic hormones, effect hormones).
- 159. Functions of hormones.
- 160. Intracellular mechanisms of hormone action
- 161. Extracellular mechanisms of action of hormones
- 162. Hormones of the pineal gland, their role
- 163. Hypothalamic statins and liberins. Their functions.
- 164. Hypothalamus effector hormones
- 165. Hormones of the thyroid, parathyroid and thymus gland
- 166. Hormones of the pancreas
- 167. Hormones of the adrenal glands
- 168. Components of the analyzer and their features.
- 169. Pupil reflex
- 170. Photochemical process in the retina
- 171. Physiological mechanisms of accommodation
- 172. Color vision

- 173. Characteristics of the hearing analyzer.
- 174. Air and bone conduction of sound.
- 175. Vestibular analyzer.
- 176. Functions of vestibular analyzer.
- 177. Physiological mechanism of pain (gate theory)
- 178. The biological significance of pain.
- 179. Antinociceptive system.
- 180. Vestibular analyzer.
- 181. Classification of painkillers.
- 182. The processes occurring in the cerebral cortex, their properties.
- 183. Types of HNA by I.P. Pavlov
- 184. Extraverts, introverts. Types of HNA by Eysenck.
- 185. Conditions for the appearance of conditional reflexes
- 186. The difference between conditional and unconditional reflexes.
- 187. Types of HNA by I.P. Pavlov
- 188. Extraverts, introverts. Types of HNA by Eysenck.
- 189. Unconditional reflexes.
- 190. Unconditional (external) inhibition
- 191. Conditional (internal) inhibition
- 192. The physiological basis of sleep.
- 193. The physiological basis of hypnosis.
- 194. The physiological basis of dreams.
- 195. Types of sleep, their meaning
- 196. Emotions.
- 197. Importance of emotions for the organism
- 198. Classification of emotions.
- 199. Unconditional (external) inhibition
- 200. Conditional (internal) inhibition