- 1. Diseases causing sudden uni- or bilateral visual disturbance.
- 2. Coverings of the brain and spinal cord.
- 3. Cisterns, sinuses and cerebral veins.
- 4. Features of the cerebrospinal fluid.
- 5. Arterial blood supply of the brain.
- 6. Anatomy of the arteries and veins in the neck.
- 7. Cerebral blood flow, cerebral blood volume, cerebral oxygen and glucose metabolism.
- 8. Disturbances of the olfaction and their causes.
- 9. Anatomy of the visual system and the types of visual field defects.
- 10. Papilledema and its differential diagnosis.
- 11. Diagnostic significance of pathological changes in the fundus.
- 12. Causes and differential diagnosis of diplopia.
- 13. Classifiction and features of nystagmus.
- 14. Gaze disturbances and their localizing significances.
- 15. Anatomy of the olfactory nerve.
- 16. Anatomy of the oculomotor nerve.
- 17. Anatomy of the trochlear nerve.
- 18. Anatomy of the abducent nerve.
- 19. Anatomy of trigeminal nerve.
- 20. Diagnosis and treatment of trigeminal neuralgia (tic doloreaux).
- 21. Anatomy of the facial nerve.
- 22. Differentiation of central from peripheral type of facial palsy.
- 23. Causes and treatment of peripheral facial palsy.
- 24. Anatomy of the vestibulocochlear nerve.
- 25. The most important causes and the treatment of tinnitus.
- 26. Symptoms and signs of central and peripheral vestibular lesion.
- 27. Vestibular neuronitis.
- 28. Méniére's disease and its treatment.
- 29. Treatment of the benign paroxysmal positional vertigo (BPPV).
- 30. Anatomy and clinical signs of the lesion of the glossopharyngeal nerve.
- 31. Anatomy of the vagal nerve.
- 32. The causes of disturbances of swallowing.
- 33. Differentiation of pseudobulbar and bulbar palsies.
- 34. Anatomy and clinical signs of the lesion of the hypoglossal nerve.
- 35. Anatomy of frontal and prefrontal lobes and signs of their lesions.
- 36. Anatomy of parietal lobe and signs of its lesion.
- 37. Anatomy of temporal lobe and signs of its lesion.
- 38. Anatomy and symptomatology of the occipital lobe.
- 39. Differentiation of central from peripheral type of motor neuron lesion.
- 40. The anatomical course of the pyramidal tract and signs of its lesion.
- 41. Anatomy of cerebellum and its most important connections.
- 42. Clinical signs of cerebellar lesions.
- 43. Anatomy of spinal cord.
- 44. Important dermatomes and reflex-segments.

- 45. Signs of spinal cord transsection.
- 46. Superficial reflexes.
- 47. Tendon reflexes and their pathological alterations.
- 48. Grasping and sucking reflexes.
- 49. Types of sensation and their receptors.
- 50. Classification and anatomy of the sensory system.
- 51. Classification of sensation disturbances.
- 52. Definition of aphasia and its most important types.
- 53. Definition of the apraxia and its localizing significance. Examination of the praxia.
- 54. Alexia, agraphia, acalculia, amusia.
- 55. Definition and types of agnosia. Anosognosia, spatial agnosia, prosopagnosia. Gerstmann's syndrome.
- 56. The definition of epilepsy and its classification.
- 57. Differential diagnosis of epileptic seizures.
- 58. Partial epilepsy (seizure types).
- 59. The complex partial epileptic seizure.
- 60. Types of generalized epileptic seizures.
- 61. General principles of the treatment of the epilepsies.
- 62. The commonest antiepileptics and their indications.
- 63. Treatment of partial seizures.
- 64. Treatment of grand mal seizures.
- 65. Most frequent causes of symptomatic epileptic seizures.
- 66. Practical measures in epileptic seizures.
- 67. Therapy of status epilepticus.
- 68. Epilepsy, drivers license and limitations in certain professions.
- 69. Possibilities of collateral blood supply of brain.
- 70. Significance of blood-brain barrier.
- 71. The risk factors of ischemic cerebrovascular diseases.
- 72. Classification of cerebrovascular diseases.
- 73. Clinical symptoms and signs of the transient ischemic attack (TIA).
- 74. Cerebral embolism (pathogenesis, clinical features, differential diagnosis).
- 75. Symptoms and signs of the occlusion of anterior cerebral artery.
- 76. Clinical features of the occlusion of the middle cerebral artery.
- 77. Symptoms and signs of posterior cerebral artery and internal carotid artery occlusions.
- 78. Symptoms and signs of perfusion disturbances in vertebrobasilar territory.
- 79. Neurological examinations performed in the case of suspected circulatory disturbance of the brain.
- 80. Medical (non neurological) examinations performed in the case of suspected circulatory disturbance of the brain.
- 81. Work up of transient ischemic attack (TIA).
- 82. Treatment of acut ischemic cerebrovascular diseases.
- 83. Indications and contraindications of thrombolysis.
- 84. Time windows in acute ischemic stroke.
- 85. Mechanical thrombectomy in ischemic stroke.

- 86. Indications and contraindications in carotid endarterectomy and stenting.
- 87. Significance of carotid Doppler ultrasound examination.
- 88. Significance of transcranial Doppler ultrasound (TCD) in cerebrovascular diseases.
- 89. The use of anticoagulants in the treatment of cerebrovascular diseases and the most dangerous interactions of anticoagulants with other drugs.
- 90. Etiology, pathology and prognosis of intracerebral hemorrhage.
- 91. Conservative and surgical treatment of intracerebral hemorrhage and its prognosis.
- 92. Tasks of general practitionars in acute cerebrovascular accidents.
- 93. Conservative treatment and care of patients with chronic cerebrovascular diseases.
- 94. Prevention of cerebrovascular diseases.
- 95. The hypertonic crisis and its treatment.
- 96. Significance and treatment of hypotension.
- 97. Diseases due to disturbances of venous circulation of the brain and their treatment.
- 98. Clinical features of subarachnoid hemorrhages.
- 99. Diagnostic strategy in subarachnoid hemorrhage.
- 100. Therapy and prognosis of subarachnoid hemorrhage.
- 101. Case history of the headache patients.
- 102. Types of headache.
- 103. Clinical examinations in headache.
- 104. General principles of treatment of headaches.
- 105. Significance, clinical characteristics and treatment of tension-type headache.
- 106. The cluster headache and its treatment.
- 107. Classification and clinical symptomatology of migraine.
- 108. Treatment and prevention of migraine attack.
- 109. Differential diagnosis of unusual headache of sudden onset.
- 110. Signs in the case history and in the findings of special examinations of patients with headache refer to serious diseases.
- 111. Classification of disturbances of consciousness.
- 112. Glasgow coma scale.
- 113. Examination of unconscious patient.
- 114. Differential diagnosis of disturbances of consciousness, except stupor and coma.
- 115. The most frequent causes of disturbance of consciousness.
- 116. Physical and simple laboratory examinations to be done in disturbances of consciousness.
- 117. The most frequent non-neurological diseases that cause disturbances of consciousness, and their therapy.
- 118. Symptomatology and criteria of brain death.
- 119. Acute inflammatory diseases of leptomeninx (pathogenic agents, route of infection).
- 120. Characteristics of the most important bacterial meningitides.
- 121. Diagnostic procedures and treatment in meningitides.
- 122. Prognosis and complications of acute purulent meningitis.
- 123. Etiology and clinical picture of brain abscess.
- 124. Viral meningitis and its therapy.
- 125. Diagnosis and treatment of encephalitides.
- 126. Post-vaccinal and post-infective encephalomyelitides.

- 127. Neurological complications of herpes zoster.
- 128. Clinical features, diagnosis of Lyme disease.
- 129. Neuroborreliosis and its treatment.
- 130. Tetanus.
- 131. Cerebrospinal syphilis.
- 132. Neurological consequences of AIDS, and their therapy.
- 133. The most important neurologic diseases causing dementia.
- 134. The most important neurologic diseases causing depression.
- 135. Performance of cisternal and lumbar puncture, indications and contraindications.
- 136. The causes of blood-tinged CSF.
- **137**. Disturbances of the circulation of the cerebrospinal fluid; normal pressure hydrocephalus.
- 138. Examinations of patients with craniocerebral traumas.
- 139. Epidural hematoma.
- 140. Symptomatology, differential diagnosis and treatment of subdural hematoma.
- 141. Differentiation and therapy of cerebral concussion and contusion.
- 142. Definition, diagnosis, therapy and possible late consequence of cerebral contusion.
- 143. Clinical features and symptomatic therapy of brain tumors.
- 144. The most frequent sources of cerebral metastases and the conservative treatment of metastases.
- 145. Pathogenesis, types and significance of brain edema in ischaemic brain lesions and brain tumors.
- 146. Treatment of brain edema.
- 147. Clinical features of expanding intracranial mass.
- 148. Types and clinical signs of brain shift.
- 149. The most important forms of nonpharmacological treatment of pain.
- 150. Paraneoplastic syndromes in neurology.
- 151. Significance of ECG and echocardiography in neurology.
- 152. Electroencephalography and its diagnostic significance.
- 153. EEG findings in inflammatory diseases of the CNS.
- 154. EEG findings in metabolic encephalopathy, intoxication.
- 155. Significance of evoked potentials.
- 156. EMG indications and typical pathological findings.
- 157. ENG indications and typical pathological findings.
- 158. Indications, contraindications and complications of angiography.
- 159. The computed tomography (CT).
- 160. MRI investigation in neurology.
- 161. Positron emission tomography (PET).
- 162. Classification of polyneuropathies.
- 163. Causes and clinical symptomatology of polyneuropathies.
- 164. Treatment of polyneuropathies.
- 165. Polyneuropathies caused by drugs.
- 166. Clinical symptomatology and treatment of diabetic and alcoholic polyneuropathies.
- 167. Neurological consequences of cervical and lumbar spondylosis.

- 168. Differential diagnostic aspects of cervcibrachialgia.
- 169. Cervical and thoracic disk diseases causing radicular syndromes and their treatment.
- 170. Etiology and therapy of myelopathies.
- 171. Syringomyelia and syringobulbia.
- 172. Determination of segment affected in spinal cord lesions.
- 173. Compulsory examinations (special interventions and non neurological examinations) in lower back pain.
- 174. General symptomatology of disk herniation.
- 175. Conservative treatment of sciatica.
- 176. Lower back pain, L3, L4 syndromes and their treatment.
- 177. S1, L5 radicular syndromes; ancillary investigations.
- 178. Differential diagnostic aspects of lower back pain.
- 179. Practical approach to acute traumatic paraplegia.
- 180. Indications of urgent surgical treatment in disk herniation.
- 181. Symptoms of conus lesion and cauda equina syndrome.
- 182. Causes and differentiation of paraparesis of the lower extremities.
- 183. Differentiation of organic and psychogenic paralysis.
- 184. Disturbances of bladder function.
- 185. Disturbances of rectal and genital innervation.
- 186. Signs of palsy of tibial and peroneal nerves.
- 187. Clinical signs and treatment of lesion of the brachial plexus.
- 188. Clinical signs and treatment of palsy of median, ulnar and radial nerves.
- 189. Amyotrophic lateral sclerosis.
- **190**. The symptoms and most frequent causes of femoral nerve lesions; diabetic amyotrophy.
- 191. Carpal tunnel and ulnar entrapment syndromes and their treatment.
- 192. Guillain-Barré syndrome.
- 193. Neurological complications and therapy of chronic alcoholism.
- 194. Special problems of childbirth in neurological diseases.
- 195. Neurological complications in chronic dialysed patients.
- 196. Neuropsychiatric complications of autoimmune diseases.
- 197. Etiology and pathology of multiple sclerosis.
- 198. Clinical signs and course of multiple sclerosis.
- 199. Initial signs and symptoms, course and prognosis of multiple sclerosis.
- 200. Special types of multiple sclerosis.
- 201. Treatment of multiple sclerosis.
- 202. Classification and clinical symptomatology of extrapyramidal syndromes.
- 203. Clinical signs and symptoms of Pakinsonian syndrome.
- 204. Treatment of Parkinsonian syndrome.
- 205. Spastic torticollis.
- 206. Chorea minor and chorea gravidarum.
- 207. Pathophysiology and clinical signs of myasthenia gravis.
- 208. Therapy of myasthenia gravis, crises in myasthenia.
- 209. Drugs contraindicated in myasthenia gravis.

- 210. Classification of myositides.
- 211. Classification and clinical signs of motor neurone diseases.
- 212. Classification of muscular dystrophies.
- 213. Muscular dystrophies and their genetic aspects.
- 214. Immunosuppressive treatment in neurology.
- 215. Plasmapheresis in neurological diseases.
- 216. Drugs used in the prevention of cerebrovascular diseases and their side effects.
- 217. The most important analgesics and their side effects.
- 218. Steroid therapy in neurological diseases and its side effects.
- 219. Side effects of the antiparkinsonian drugs.
- 220. The most frequent neurological side effects of the muscle relaxants.
- 221. The most frequent neurological side effects of the neuroleptics.
- 222. Side effects of the most frequently used antiepileptic drugs.
- 223. The most important drugs decreasing the threshold for epileptic seizures.
- 224. The most important drugs producing extrapyramidal and motor side effects.
- 225. Prion diseases.
- 226. Normal human sleep.
- 227. Insomnias (diagnosis, symptoms, therapy).
- 228. Obstructive sleep apnea and its therapy.
- 229. Narcolepsy.
- 230. Restless legs syndrome.
- 231. Polysomnography.