

# QUESTIONS FOR THE FIRST MODULE CONTROL ON NEUROLOGY

## *Module I: General Neurology.*

*Content module 1. Introduction. Symptoms of motor and sensory disorders.*

1. Neurology as a science, as the branch of practical medicine and training subject.
2. The main stages of development of the neurological sciences.
3. The main stages of the development of the nervous system.
4. The main anatomical-topographical parts of the nervous system.
5. The main principles of functioning of the nervous system.
6. Neuron, neuroglia, synapse: their functional significance.
7. The reflex system of the spinal cord. The reflex and reflex arch. Types of reflexes.
8. Tendon and periosteal reflexes, their reflex arches.
9. Cortico-nuclear and cortico-spinal tracts: anatomy, lesion syndromes.
10. Central (spastic) paralysis.
11. Peripheral (flaccid) paralysis. Pathogenesis of atony, areflexy, atrophy.
12. Alternating paralysis. Syndromes of the defeat of the cerebral peduncles, cerebellopontine angle, pons varolii.
13. The syndrome of motor disorders in the defect of the motor ways at different levels: frontal central gyrus, corona radiation, internal capsule.
14. The syndrome of motor disorders in the defect of the motor ways at different levels of the spinal cord: supra – the cervical intumescence, at the level of the cervical intumescence, thoracic, lumbar intumescences, the conus.
15. The syndrome of motor disorders in the defect of the motor ways at different levels of the peripheral motor neuron: the anterior horn, anterior root, nervous plexus, certain peripheral nerves.
16. Methods research of the motor system.
17. The extrapyramidal system, anatomical features, functions.
18. Parkinson's syndrome, the biochemical mechanisms of pathogenesis.
19. The types of hyperkinesis.
20. The cerebellum, the anatomic and physiological features, syndromes of defeat.
21. Types of ataxia.
22. Sensitivity. Kinds of sensitivity, the types of sensitive violations.
23. Types of violations of the sensitivity. Brown-Sequard's syndrome.

*Content module 2. The pathology of cerebral nerves. The violation of the vegetative nervous system and the higher brain functions. The meningeal syndrome. Additional research methods in neurology.*

1. The anatomic-physiological data, research methods, syndromes of destruction of I-XII pairsof of cerebral nerves.
2. Central and peripheral paresis of the facial nerve.
3. Bulbar and pseudobulbar syndromes.
4. Superegmental and segmental parts of the autonomic nervous system, their functions, syndromes of defeat.
5. Methods of research of vegetative functions.
6. Sympathetic and parasympathetic parts of the autonomic nervous system: anatomy, function, lesion syndromes.
7. Vegetative-vascular paroxysms: types, clinic.
8. Clod-Bernard-Horner's syndrome.
9. The cortex of the big hemispheres, cytoarchitectonics fields, syndromes of defeat.

10. Agnosia, aphasia, apraxia.
11. Disorders of speech (disarthria, aphasia).
12. The liquor formation, the components of the liquor in normal, its modifications in meningitis, tumors, hemorrhagic stroke, tuberculosis. Cerebrospinal puncture – indications, contraindications, methods of conducting.
13. The clinic of the meningeal syndrome.
14. Electrophysiological methods of research.
15. Methods of the neurovisualisation in the clinic of nervous diseases.
16. Ultrasonic research methods.