

General neurology

	<i>Question</i>	<i>Details and comments</i>
1.	Disorders of consciousness	Definition, symptoms, evaluation (GCS), structural correlates
2.	Impairments of speech and language, and other higher cortical functions	Symptoms, structural correlates of impairment of phonation, articulation, aphasia, apraxia and agnosia
3.	Syndromes of cortical lobes	Syndromes of frontal, parietal, temporal, occipital lobe
4.	Cranial nerve syndromes	Impairment of the visual pathway, oculomotor nerves, trigeminal n., central vs. peripheral facial palsy, vestibulocochlear nerve, 9th, 10 th and 11 th nerve, n. hypoglossus
5.	Brain stem syndromes	Internuclear ophthalmoplegia, alternating brainstem syndromes, bulbar and pseudobulbar syndrome, impairment of speech and swallowing, etc.
6.	Dementia and cognitive dysfunction	Definition, symptoms and classification of dementia, symptoms of partial cognitive deficits, MCI
7.	Syndromes of motor system impairment	Symptoms and structural correlates: central and peripheral palsy, syndromes corresponding to lesions of pyramidal tracts in various levels, peripheral motor neuron impairment
8.	Extrapyramidal hypokinetic (parkinsonian) syndrome	Description of symptoms, pathophysiology, causes
9.	Hyperkinetic extrapyramidal syndromes	Tremor, chorea, dystonia, myoclonus, tic – description of symptoms, pathophysiology, causes
10.	Syndromes of posterior fossa and the cerebellum	Cerebellar syndrome, vestibular syndromes, bulbar and pseudobulbar syndrome, cerebellopontine angle syndrome
11.	Disorders of posture and gait	Impairments of posture and stability of stance, symptoms and classification of gait disorders
12.	Meningeal syndrome, intracranial hypertension	Clinical presentation and tests, CSF and imaging findings
13.	Syndromes of spinal cord and nerve roots	Posterior and lateral column syndromes, syringomyelic syndrome, conus, epiconus and cauda equina syndromes
14.	Syndromes of peripheral nerve lesions – upper and lower extremities	Symptoms and clinical signs: median, ulnar, radial, femoral, sciatic, tibial, peroneal nerves
15.	Disorders of somatic sensation	Impairment of superficial and deep sensation, symptoms and clinical correlates (e.g.spinal cord lesions)
16.	Muscle weakness and its differential diagnosis	Myasthenic and myopathic syndromes, comparison to peripheral and central palsies
17.	Neuroimaging techniques	Rationales, indications a common findings: X-ray, CT and MRI; SPECT and PET
18.	Clinical neurophysiology	Rationales, indications and common findings: EEG, EMG, evoked potentials

Special neurology

	<i>Question</i>	<i>Details and comments</i>
1.	Disorders of consciousness	Classification, symptoms, differential diagnosis (drop-attacks, syncopes, epileptic vs. non-epileptic seizures, intoxications, metabolic disorders)
2.	Headache, neuralgias and neuropathic pain, other pain syndromes	Symptoms, differential diagnosis, paraclinical investigations, short- and long-term therapy, prophylaxis
3.	Intracranial tumors and spinal cord tumors	Primary vs. metastatic, paraneoplastic syndromes – symptoms, differential diagnosis, imaging findings, therapy
4.	Inflammatory diseases of the brain and spinal cord	Overview and symptoms of neuro-inflammatory diseases, meningitis, encephalitis a myelitis, abscess and parasitary infections of the brain and spinal cord, CFS findings, therapy
5.	Ischemic stroke	Clinical types and their symptoms, differential diagnosis, pathophysiology, imaging finding, therapy, primary and secondary prevention
6.	Spontaneous subarachnoid hemorrhage and intracerebral hematomas	Symptoms, differential diagnosis, pathophysiology, imaging findings, therapy
7.	Traumatic head and brain injuries and spinal cord injuries	Mild traumatic brain injury, concussion, contusion, diffuse axonal injury, epidural and subdural hematomas; spinal cord lesions – symptoms, differential diagnosis, pathophysiology, imaging findings, therapy
8.	Epilepsy, epileptic syndromes of childhood	Classifications of seizures and epileptic syndromes, diagnostic procedures, typical EEG finding, therapy
9.	Polyradiculoneuritis and polyneuropathy - acute and chronic	AIDP, CIDP, metabolic and toxic neuropathies – symptoms, differential diagnosis, EMG findings, therapy
10.	Neuromuscular disorders	myopathy, myasthenia, myotonia, myositis, amyotrophic lateral sclerosis - symptoms, EMG findings
11.	Multiples sclerosis and other demyelinating diseases	Symptoms, differential diagnosis, pathophysiology, imaging and neurophysiological findings, therapy
12.	Neurodegenerative disorders	anatomic classification (cortical, sub-cortical, spinal cord, cerebellar), genetics, pathology, symptoms
13.	Parkinson's disease and other hypokinetic movement disorders	Clinical symptoms, differential diagnosis, farmacological tests, imaging findings, therapy, complications
14.	Hyperkinetic movement disorders	essential tremor and other tremors, Huntington's disease and other choreas, dystonia, myoclonus, tic
15.	Alzheimer's disease and other dementias	epidemiology, classification, pathology, diagnostic work-up, therapy
16.	Radicular syndromes, plexopathies, mononeuropathy and entrapment neuropathies	Peripheral facial palsy, radicular and entrapment syndromes of upper and lower extremity, lesions of brachial and lumbosacral plexus
17.	Vertebral column syndromes, cervical, upper and lower back pain	Myofascial pain, discopathy, spondylogenic myelopathy, radicular syndromes, diagnostic work-up and therapy, complications
18.	Sleep disorders	Excessive day-time sleepiness and its differential diagnosis, sleep related movement disorders and parasomnias, nocturnal epilepsy
19.	Psychomotor development, examination of infants, cerebral palsy	Symptoms, differential diagnosis, diagnostic work-up and paraclinical examinations, therapy
20.	Neurodevelopmental disorders	Tourette's syndrome, ADHD, autism, differential diagnosis, pathophysiology, therapy