

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT PROFESSOR (Super Speciality) NEUROLOGY MEDICAL EDUCATION DEPARTMENT

1. Applied Neuroanatomy.
2. Applied Neurophysiology.
3. Neuropathology, particularly disorders involving Peripheral Nerves and Muscles, Brain and Spinal cord.
4. A-Neuro Symptomatology.
B-Neurological Examination and its interpretation.
5. Neurological Localization.
6. Laboratory investigations in Neurological disorders including Serology and Molecular Biology.
7. Clinical Neurophysiology including EEG, EMG, NCS, Polysomnography, Transcranial Doppler Study etc.
8. Neuroimaging and Nuclear Medicine in Neurology i.e. PET/SPET etc. and Chemical imaging.
9. Neurological disorders (Etiopathogenesis, Clinical Presentation, Courses, Management, Treatment including recent Clinical Trial)
 - i) Cerebrovascular Diseases
 - ii) CNS infections
 - iii) Demyelinating disorder.
 - iv) Deficiency disorders of CNS
 - v) Toxic and Metabolic Neurological disorders.
 - vi) Disorders of Brain secondary to inborn errors of metabolism, hypoxia.
 - vii) Developmental disorders of CNS/Neurocutaneous syndromes.
 - viii) Dementias
 - ix) Epilepsies including modern management and surgery.
 - x) Cranial Neuropathies and CVJ Anomalies.
 - xi) Sleep and its disorders.
 - xii) Disorders of Extrapyrarnidal System.
 - xiii) Disorders of Cerebellum.
 - xiv) Disorders of Spinal cord.
 - xv) Disorders of Peripheral Nerves, Roots and Plexuses.
 - xvi) Disorders of Muscle and Neuromuscular junction.
 - xvii) Neurological Manifestations of Systemic Disorder and Neuroendocrinology.
 - xviii) CNS Malignancies and Paraneoplastic Syndromes.

- xix) Disorders of CSF circulation and Brain edema.
 - xx) Disorders of ANS.
 - xxi) Mitochondrial Cytopathies.
 - xxii) Headache and other related craniofacial pain disorders.
 - xxiii) Disorders of Consciousness.
 - xxiv) Pregnancy and Neurological Disorder.
 - xxv) Tropical Neurology
 - xxvi) Motoneuron Diseases
 - xxvii) Brain Tumors
 - xxviii) Neuro-Ophthalmology
 - xxix) Gait Disorders
 - xxx) Neuro-Urology
 - xxxi) Brain-Death and its medicolegal aspects
 - xxxii) Prion-diseases
 - xxxiii) Neuro-Degenerative disorder
10. Principles of interventional neurology including botulinum toxin therapy, deep brain stimulation, magnetic stimulation, vagus nerve stimulation and endovascular therapy/intervention.
 11. Neurointensive care
 12. Pain management
 13. Neuroimmunology
 14. Clinical Neurogenetics
 15. Neuropsychiatry and relevant neuro-surgery
 16. Neuro- Rehabilitation
 17. Teaching and Research methodologies.

Pattern of Question Papers:

- 1. Objective Type Paper**
- 2. Maximum Marks: 150**
- 3. Number of Questions: 150**
- 4. Duration of Paper: 2.30 Hours**
- 5. All Questions carry equal marks**
- 6. There will be Negative Marking**
(For every wrong answer one-third of the marks prescribed for that Particular question shall be deducted.)