

## NEUROLOGY

### PAPER – I

Time : 3 hours  
Max. Marks : 100

NEURO/D/10/23/I

**Attempt all questions in order.  
Each question carries 10 marks.**

1. Describe the blood supply of spinal cord.
2. Draw a labeled diagram of lumbosacral plexus. How will you differentiate L5 lesion from lumbo sacral plexitis.
3. Discuss the physiology of 'tone' & clinical approach to "myotonia"
4. What are the components of Limbic System? Describe its connections.
5. Draw neuromuscular Junction and discuss the mechanism of neuromuscular transmission.
6. Describe the anatomy of thalamus with the help of a labeled diagram and discuss its connections.
7. Discuss the mechanism and control of vertical eye movements.
8. Draw and label section of Medulla at rostral and caudal level.
9. Draw a cross section of peripheral nerve. How will you classify the nerve fibers and describe their functions.
10. Discuss the cytoarchitect of cerebral cortex.

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### PAPER – II

Time : 3 hours

Max. Marks : 100

NEURO/D/10/23/II

Attempt all questions in order.  
Each question carries 10 marks.

Write short notes on:

1. Immunomodulatory treatment for Multiple Sclerosis.
2. Management of Myasthenia gravis.
3. Staging of 'Leukoaraiosis' and its relevance to stroke and dementia.
4. Pathophysiology of migraine. How will you manage a patient with chronic daily headache?
5. Cerebral reversible vasoconstrictions syndrome.
6. Clinical features, diagnosis and management of primary CNS vasculitis.
7. Autoimmune Encephalitis.
8. Acute management of ischemic stroke.
9. Management of cortical venous thrombosis.
10. Anatomical basis of various aphasias.



## NEUROLOGY

### PAPER – III

Time : 3 hours  
Max. Marks : 100

NEURO/D/10/23/III

**Attempt all questions in order.  
Each question carries 10 marks.**

**Write short notes on:**

1. Electrodiagnostic approach to a patient with foot drop.
2. Role of Trans-Cranial Doppler in Clinical practice.
3. Role of skin biopsy in neurological disorders.
4. What are sleep spindles? How do spindles evolve and their criteria for abnormalities.
5. Susceptibility Weighted Imaging (SWI) on MRI & its relevance to neurological practice.
6. Classify Limb-Girdle dystrophies and describe their genetics and salient histo-pathological features.
7. Electrophysiological diagnosis of carpal tunnel syndrome.
8. Define anticipation and discuss the genetics of Hereditary Ataxias.
9. Martin –Gruber anastomosis and its types.
10. What is alpha coma? Enumerate its causes.