

POST-DOCTORAL DEGREE EXAMINATION – AUGUST 2022

D.M. NEUROLOGY

Time: 3 Hours

Max. Marks: 100

PAPER – I

**Basic Science (Neuroanatomy, Neurophysiology,
Neurochemistry, Neuropathology, Neuropharmacology)**

Q.P. Code: 1505

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. Blood supply of cerebellum.
2. Anatomy and physiology of neuromuscular junction.
3. Mechanism of spasticity.
4. Papez circuit.
5. Dopaminergic transmission and receptors.
6. Botulinum toxin.
7. Neuronal plasticity.
8. Malformations of cortical development.
9. Mechanisms of epileptogenesis.
10. Autonomic function tests.

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**PAPER – II:
Clinical Neurology**

Q.P. Code: 1506

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. Higher level gait disorders.
2. Non systemic vasculitic neuropathy.
3. Management of neurogenic bladder.
4. Extended window thrombolysis in acute ischemic stroke.
5. Non motor functions of cerebellum.
6. Approach to monocular visual loss.
7. Trigeminal autonomic cephalalgias.
8. Evaluation of patient with rapidly progressive dementia.
9. Management of motor fluctuations in Parkinson's disease.
10. Types of apraxia and their localization.

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PAPER – III
Clinical Neurology and Investigative Neurology

Q.P. Code: 1507

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. FIRES syndrome.
2. Imaging of CNS vasculitis.
3. Evaluation and management of ganglionopathy.
4. IgG4 related disease.
5. Evaluation and management of opsoclonus myoclonus syndrome.
6. Atypical CIDP variants and their management.
7. Rasmussen's encephalitis.
8. Role of perfusion imaging in acute stroke.
9. Triphasic waves.
10. MR imaging of CNS and its differential diagnosis.

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PAPER – IV
Recent Advances

Q.P. Code: 1508

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

ESSAY QUESTIONS:

10 X 10 = 100

1. Role of Biomarkers in stroke.
2. Cannabinoids.
3. Management of impulse control disorders.
4. Role of MLPA in neurology.
5. Newer antiplatelet agents in stroke.
6. Evaluation and management of OSA.
7. Revascularization strategies in Moya moya disease.
8. Anti-Homer 3 antibody.
9. Diagnosis and management of SSPE.
10. Post Covid vaccine induced immune thrombotic thrombocytopenia.
