

POST-DOCTORAL DEGREE EXAMINATION – AUGUST 2021

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

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the physiology and molecular events of neuromuscular transmission.
2. Describe the physiology of auto regulation of cerebral blood flow.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Draw a cross section of medulla at the level of Vagus nerve nucleus and identify all the important nuclei and tracts.
4. Write briefly on spasticity.
5. Paroxysmal depolarizing shift.
6. Laminar architecture of spinal cord.
7. Neural basis of sleep.
8. Holoprosencephaly.

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Max. Marks: 100

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

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the differential diagnosis and outline the management of acute flaccid paralysis.
2. Discuss the etiology, clinical features and management of primary subarachnoid hemorrhage.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Anterior ischemic optic neuropathy.
4. Drug induced myopathies.
5. Osmotic demyelination syndromes.
6. The role of neuro stimulation in migraine.
7. Benign focal epilepsies of childhood.
8. Congenital Myasthenic syndrome.

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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

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. How will you evaluate and treat a person who presents with wakeup stroke.
2. How will you evaluate a person presenting with unilateral visual loss of acute onset.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write briefly on Transcranial Doppler examination.
4. Role of optical coherence tomography its neurological disorders.
5. Motor unit number estimation in neuromuscular disorders.
6. Neurofilament protein in the CSF.
7. Magnetic resonance spectroscopy.
8. High frequency oscillations in EEG.

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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

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the management of a patient of Parkinson's disease including surgical treatment.
2. Discuss the current guidelines for primary prevention of ischemic stroke.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss the updates in inflammatory myopathies.
4. Neuromyelitis Optica (NMO) spectrum disorders.
5. Oral disease modifying agents for multiple sclerosis.
6. Management of carotid stenosis.
7. Newer antiepileptic drug.
8. Role of neuroprotection in ischemic stroke.
