

POST-DOCTORAL DEGREE EXAMINATION – OCTOBER 2020

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. Discuss neuro anatomy of language and various cortical aphasia (10+10)

2. Discuss neurophysiology of normal EEG and epileptiform activity (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe the role of Dopamine receptors

4. Discuss neuropathology of Alzheimer Dementia

5. Describe Brachial plexus anatomy

6. Discuss different types of Nystagmus

7. Describe the anatomy & physiology of muscle spindle

8. Discuss the pathophysiology of Rigidity

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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

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Write about Semiological seizure classification
2. Discuss the emergencies in movement disorders

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write about different phenotypes of limp girdle dystrophy
4. Discuss Pontine syndromes
5. Write about clinical features of Trigeminal Autonomic Cephalalgia
6. Write about Frontal assessment battery
7. Discuss Myasthenic crisis & its management
8. Discuss differential diagnosis of non-compressive myelopathies

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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. Discuss the challenges of treating epilepsy in India
2. Discuss various clinical presentations in posterior circulation stroke

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss pathophysiology of migraine
4. Write about MOG antibody disease & its management
5. What are the various periodic patterns on EEG
6. Write about Musk Myasthenia
7. Write about neurological manifestations of Dengue
8. Write about global aphasia

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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 reversible cerebral vasoconstriction syndrome
2. Discuss treatment of aggressive multiple sclerosis

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss neurological manifestations of COVID-19 infection
4. Write about clinical features & management of vestibular migraine
5. How do you approach MRI negative epilepsies
6. Discuss the role of carotid endarterectomy
7. Write about the imaging features of Tuberculoma & its differential diagnosis
8. Write about the uses of monoclonal antibodies
