

QP Code:

Reg.No.:.....

**D.M. (Neurology) Degree Examinations  
(Model Question Paper)**

**Paper I – Basic Sciences**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss briefly animal models in neurological disorders

**Short essays:**

**(8x10=80)**

2. Anatomy of cerebral venous sinus system and pathophysiology of venous strokes
3. Neurological disorders due to channelopathies
4. Discuss pathophysiology of brain herniation
5. Transthyretin
6. Pathophysiology of tuberculous meningo-encephalitis
7. Discuss pathophysiology of dystonia
8. Neurotoxic effect of organophosphorus poisoning
9. Pathophysiology of sympathetic pain disorder

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**Paper II – Clinical Neurology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Discuss the approach to a 50 year old man who presents with a two month history of rapidly progressive dementia

**Short essays:**

**(8x10=80)**

2. Autoimmune encephalopathies
3. Autistic spectrum disorders
4. Management of a 20 year old woman presenting with an acute spinal cord injury
5. Arterial dissections and effects on the central nervous system
6. Cluster headaches
7. Congenital myasthenic syndromes
8. Spinal dural arteriovenous fistulas
9. Stiff person syndrome

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**Paper III – Principles and Practice of Neurology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Utility of DTI in neurological disorders

**Short essays:**

**(8x10=80)**

2. Clinical utility of MR perfusion imaging
3. Predictors for outcome after hypoxic encephalopathy
4. Critique the various rating scales in multiple sclerosis
5. Discuss the non-invasive evaluation of extracranial and intracranial atherosclerosis
6. Discuss the travails of treating tuberculous meningitis
7. Discuss the investigations in work up for stroke in the young
8. Utility of multiple segmental stimulation in evaluation of peripheral neuropathies
9. MUSK ab myasthenia

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**Paper IV – Recent Advances in Neurology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(20)**

1. Critical appraisal of neuro protective agents in stroke

**Short essays:**

**(8x10=80)**

2. Discuss treatment strategies in advance Parkinson's disease
3. Impact of HAART on HIV dementia and HIV related peripheral neuropathies
4. Botulinum toxin
5. Impact on neuro-epidemiology from Indian studies
6. Discuss a detailed work up for an autonomic dysfunction in neurological disorders
7. Critique the current status and future prospects of stem cell therapy in neurological disorders
8. Prenatal diagnosis
9. Metabolic syndrome and its impact on neurological disorders

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