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## DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2012

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO NEUROLOGY

Saturday, July 07, 2012

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions carry TEN marks each.
- 1. Discuss the genesis and conduction of Action Potential in a nerve cell
- 2. Describe the various stages of sleep
- 3. Describe the functions of ventral visual pathway
- 4. Describe the principal postural reflexes with their respective level of integration
- 5. Describe the various dopaminergic pathways in brain
- 6. Discuss the physiological role of Serotonin in brain. Add a note on serotonin receptors
- 7. Discuss the various muscular dystrophy associated proteins in muscle cells
- 8. Discuss the various intracranial pressure waves and its significances
- 9. Draw a diagram of Pons at the level of facial Colliculus
- 10. Describe the Anatomy and functions of Prefrontal lobe

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### DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2012

SUBJECT: PAPER II: CLINICAL NEUROLOGY DISEASES OF CENTRAL NERVOUS SYSTEM - BRAIN Monday, July 09, 2012

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- 1. Discuss the pathology in Alzheimer's disease and Binswanger's disease.

(10 marks)

- 2. Write short notes on:
- 2A. Non Systemic Vasculitic Neuropathy
- 2B. Immunoblots in Limb Girdle Dystrophies
- 2C. Utility of SSR
- 2D. SFEMG
- 2E. Quantitative EMG

 $(10 \times 5 = 50 \text{ marks})$ 

- 3. Write short notes on:
- 3A. Microarrays in Neurology
- 3B. Critical Illness Neuromyopathy
- 3C. Safinamide
- 3D. Neuroleptic Malignant Syndrome

 $(10 \times 4 = 40 \text{ marks})$ 

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## DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2012

SUBJECT: PAPER III: CLINICAL NEUROLOGY – DISEASES OF SPINAL CORD, NERVES, NERVEMUSCLE JUNCTION, MUSCLES, AUTONOMIC NERVOUS SYSTEM AND NEUROPSYCHIATRY

Wednesday, July 11, 2012

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions carry TEN marks each.
- 1. Inflammatory myopathies
- 2. Pronator teres syndrome
- 3. Progressive external ophthlmoplegia
- 4. Remitting relapsing multiple sclerosis
- 5. Spinal muscular atrophies
- 6. Critical illness neuropathy
- 7. Neurogenic bladder
- 8. Periodic paralysis
- 9. Hyper CPKemia
- 10. Psychogenic movement disorders



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## DM (NEUROLOGY) DEGREE EXAMINATION - JULY 2012

# SUBJECT: PAPER IV: ALLIED BRANCHES RELATED TO NEUROLOGY, RECENT ADVANCES IN NEUROSCIENCES

Friday, July 13, 2012

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- 1. Intravenous immunoglobulins and plasmapheresis in neurological disorders
- 2. Recent advances in the management of advanced Parkinson's disease
- 3. Antithrombotic agents
- 4. Hashimoto's encephalopathy
- 5. Therapeutic monitoring in epilepsy
- 6. Post streptococcal neurological syndromes
- 7. Episodic ataxias
- 8. Amyloid beta protein
- 9. fMRI
- 10. EEG recording in sleeps