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MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO NEUROLOGY

Tuesday, July 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Embryology of nervous system with special reference to neural tube defects.
2. Physio anatomical basis of posture and balance and its derangement in vertigo.
3. Papez circuit
4. Safety factor in neuromuscular transmission
5. Mitochondrial DNA
6. Central cord syndrome
7. Lewy bodies
8. Venous drainage of brain
9. Nociception
10. Carnitine deficiency



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MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2011

SUBJECT: PAPER II: CLINICAL NEUROLOGY DISEASES OF CENTRAL NERVOUS SYSTEM - BRAIN

Thursday, July 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

All questions carry TEN marks each.

1. Clinical features, laboratory diagnosis and management of aseptic meningitis
2. Minimal cognitive impairment
3. Chronic daily headache
4. Hippocampal epilepsy
5. Anticancer therapy related neurotoxicity
6. Evaluation of Transient ischemic attack
7. Papilledema
8. Clinical assessment of unconscious patient
9. Episodic ataxias
10. Alien limb phenomenon



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MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2011

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

Saturday, July 09, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Describe the management of Malignant Hemispheric infarction involving the Non dominant hemisphere.

(10 marks)

2. Write short notes on:

2A. Lupus Anticoagulant

2B. Monoclonal Antibodies in Neurological therapeutics

2C. Role of High dose Corticosteroids in treatment of relapses in CNS white matter diseases

2D. Hyperbaric oxygen in Neurological disorders

2E. Stem Cell Therapy in Neurological disorders

(10×5 = 50 marks)

3. Write short notes on:

3A. Immune Reconstitution Syndrome

3B. Mitoxantrone

3C. Mycophenolate Mofetil

3D. PRION disorders

(10×4 = 40 marks)



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MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2011

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

Monday, July 11, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

All questions carry TEN marks each.

1. Discuss the Genetics of primary dystonia
2. What is mild cognitive impairment? What are the types and what is its significance?
3. What are Aquaporins? Discuss the importance of its neurology in health and disease
4. Discuss the usefulness of CSF study in neurodegenerative disease
5. Discuss the scope of Stem Cell Therapy in neurology. What are the limitations of Stem cell therapy?
6. What is P100? What is its clinical significance?
7. Discuss the protocol of Electrophysiological study in a suspected case of Myasthenia Gravis
8. Discuss the various parameters assessed in a nerve conduction study and its clinical significance
9. Discuss the clinical significance of periodic lateralised epileptic form discharges in EEG
10. Discuss the radiological findings in medial temporal sclerosis

