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MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2015

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO NEUROLOGY

Tuesday, July 14, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Long Essays:

1. Anatomy of the cerebellum and classification of cerebellar ataxias. (20 marks)
2. Blood supply of internal capsule and classification of strokes. (20 marks)

3. Short Essays:

- 3A. Corpus callosum: Applied anatomy and physiology
 - 3B. Epigenetic regulation and its relevance to neurologic disorders
 - 3C. Cerebral microbleeds
 - 3D. Cortical visual disorders
 - 3E. mTOR: Its role in neurological diseases
 - 3F. Genetics of epilepsies
- (10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER II: CLINICAL NEUROLOGY; DISEASES OF THE CENTRAL NERVOUS SYSTEM - BRAIN**

Wednesday, July 15, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Long Essays:

1. Discuss the role disease modifying drugs in the treatment of Multiple Sclerosis. (20 marks)

2. Management of Convulsive Status Epilepticus. (20 marks)

3. Short essays:

3A. Neurodegeneration with brain iron accumulation

3B. Anti-NMDA receptor encephalitis

3C. Olfactory dysfunction in neurodegenerative disorders

3D. Diagnosis of Creutzfeldt-Jakob disease

3E. Post-stroke Atrial Fibrillation

3F. Neurostimulation in the management of epilepsy

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2015

**SUBJECT: PAPER III: CLINICAL NEUROLOGY, DISEASES OF SPINAL CORD,
NERVES, NM JUNCTION, MUSCLES, ANS AND NEUROPSYCHIATRY**

Thursday, July 16, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Long essays:

1. Classification and management of congenital muscular dystrophies. (20 marks)
2. Phenotypic and genotypic characterization of Hereditary Spastic Paraplegia (HSP). (20 marks)

3. Short essays:

- 3A. Optic neuropathies
- 3B. Congenital myasthenic syndromes
- 3C. Diagnosis of Anterior Horn Cell disorders
- 3D. Nutritional myeloenceuropathies
- 3E. Parasitic myopathies
- 3F. Dopamine dysregulation syndrome

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER IV: APPLIED BRANCHES RELATED TO NEUROLOGY,
NEURORADIOLOGY, NEUROPATHOLOGY, CLINICAL NEUROPHYSIOLOGY**

Friday, July 17, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Long Essays:

1. Presurgical evaluation of a patient with drug-resistant focal epilepsy. (20 marks)
2. Electrophysiological evaluation of a patient presenting with acute neuromuscular paralysis. (20 marks)

3. Short Essays:

- 3A. Functional MRI (fMRI)
 - 3B. Histopathological features of inflammatory myopathies
 - 3C. EEG in the diagnosis of brain death
 - 3D. Optic Coherence Tomography
 - 3E. Somatosensory evoked potentials
 - 3F. Electrophysiological diagnosis of brachial plexopathies
- (10 marks × 6 = 60 marks)

