

Reg. No.

MANIPAL UNIVERSITY

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO NEUROLOGY

Monday, July 10, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Long Essays:**

1. Applied anatomy of visual field defects
2. The amygdala: functional organization and involvement in neurological disorders
(20 marks × 2 = 40 marks)

3. **Short Essays:**

- 3A. ALS genes
- 3B. Apolipoprotein and cognitive function
- 3C. Papilledema: Pathophysiology and differential diagnosis
- 3D. Brainstem serotonergic system
- 3E. Copy number variations
- 3F. Biomarkers in Parkinson's disease
(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2017****SUBJECT: PAPER II: CLINICAL NEUROLOGY; DISEASES OF THE CENTRAL
NERVOUS SYSTEM - BRAIN**

Tuesday, July 11, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Long Essays:

1. Neurological manifestations of infective endocarditis
(20 marks)

2. Treatment of tuberculous meningitis
(20 marks)

3. Write short notes on:

3A. Withdrawal of antiepileptic drugs

3B. Secondary stroke prevention

3C. Tuberos sclerosis complex

3D. Cervical artery dissections

3E. Myotonic disorders

3F. Neuromyelitis optica spectrum disorders

(10 marks × 6 = 60 marks)



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

Wednesday, July 12, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Long Essays:**

1. Discuss the syndromic diversity of Alzheimer's disease.
2. Treatment of acute bacterial meningitis.

(20 marks × 2 = 40 marks)

3. **Write short notes on:**

- 3A. Contraception in women with epilepsy
- 3B. Role of stent retrievers in stroke treatment
- 3C. Cognitive dysfunction in multiple sclerosis
- 3D. Progressive myoclonic epilepsies
- 3E. Role of telemedicine in acute stroke management
- 3F. Non-motor symptoms of Parkinson's disease

(10 marks × 6 = 60 marks)



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SUBJECT: PAPER IV: APPLIED BRANCHES RELATED TO NEUROLOGY,
NEURORADIOLOGY, NEUROPATHOLOGY, CLINICAL NEUROPHYSIOLOGY

Thursday, July 13, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Long Essays:**

1. Electrophysiological criteria for the diagnosis of motor neuron disease. (20 marks)
2. Utility of Transcranial Doppler in the evaluation of a patient with recent stroke. (20 marks)

3. **Short Essays:**

- 3A. Transcranial magnetic stimulation (TMS).
- 3B. Role of nocturnal polysomnography (PSG) in the evaluation of a patient with day time somnolence.
- 3C. Diffusion tensor MRI imaging (DTI).
- 3D. Critically discuss the role of therapeutic drug monitoring (TDM) in the drug treatment of epilepsy.
- 3E. Critically discuss the role of Trans Esophageal Echocardiography (TEE) in the evaluation of a patient with ischemic stroke.
- 3F. Pathology of mesial temporal lobe sclerosis

(10 marks × 6 = 60 marks)

