

MANIPAL ACADEMY OF HIGHER EDUCATION
DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2019
SUBJECT: PAPER I: BASIC SCIENCES RELATED TO NEUROLOGY

Tuesday, July 09, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer ALL the questions.**

 **Long Essays:**

1. What is Monroe-Kelle principle? Discuss regulation of intracranial pressure.
2. Discuss cortical layers, intrinsic circuitry and deep grey matter of Cerebellum. Discuss neuroanatomical correlation of various cerebellar syndromes

(20 marks × 2 = 40 marks)

3. **Short Essays:**

- 3A. Thalamus
- 3B. Venous drainage of brain
- 3C. Neurophysiology of spasticity and Rigidity
- 3D. Radiculopathies at C3 C4 C5 C6 and C7 levels
- 3E. " Cardio vagal" and "Cardio adrenergic" function
- 3F. Arnold-Chaire Malformation

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2019****SUBJECT: PAPER II: CLINICAL NEUROLOGY; DISEASES OF THE CENTRAL
NERVOUS SYSTEM - BRAIN**

Wednesday, July 10, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss Synucleinopathies
2. Management of stenotic atherosclerotic plaque in Carotid artery

(20 marks × 2 = 40 marks)

3. **Short Essays:**

- 3A. Discuss Primary head aches
- 3B. Leukodystrophies
- 3C. Progressive Multiple Sclerosis
- 3D. Adult onset genetic Leukodystrophy
- 3E. Mechanical thrombectomy
- 3F. Cerebral micro bleeds

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2019****SUBJECT: PAPER III: CLINICAL NEUROLOGY, DISEASES OF SPINAL CORD,
NERVES, NM JUNCTION, MUSCLES, ANS AND NEUROPSYCHIATRY**

Thursday, July 11, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Long Essays:

- 1A. Evaluation of a patient with droopy eyes (ptosis).
- 1B. Temporal arteritis: diagnosis and treatment.

(20 marks × 2 = 40 marks)

2. Write Short Notes on:

- 2A. Pre-hospital thrombolysis for stroke.
- 2B. Percutaneous LA appendage closure for stroke prevention in patients with AF
- 2C. Cerebral creatine deficiency disorders
- 2D. Fragile X syndrome.
- 2E. Genetic diagnosis of Huntington's disease
- 2F. Malformations of cortical development

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

DM (NEUROLOGY) DEGREE EXAMINATION – JULY 2019

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

Friday, July 12, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. **Long Essays:**

- 1A. Electrophysiological diagnostic approach to a patient presenting with weakness and wasting of hand muscles
- 1B. Diagnostic approach to a patient presenting with recent onset focal seizure and a ring enhancing lesion in the CT scan

(20 marks × 2 = 40 marks)

2. **Write Short Notes on:**

- 2A. Electrophysiological diagnosis of congenital myasthenic disorders
- 2B. Differential diagnosis between transient global amnesia and transient epileptic amnesia
- 2C. Vagus nerve stimulator
- 2D. Nocturnal polysomnography
- 2E. Electrodiagnosis of tarsal tunnel syndrome
- 2F. HIV-associated neurocognitive disorders

(10 marks × 6 = 60 marks)

