

Reg. No.

MANIPAL UNIVERSITY

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2015

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, July 14, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Long essays:

1. Describe the pathophysiology and management of raised intracranial pressure with special mention on the various types of cerebral herniation syndromes. (20 marks)

2. Describe the Safe entry zones to the brain stem. (20 marks)

3. Write short notes:

3A. Surgical anatomy of the temporal lobe

3B. Discuss the Neurophysiology of Spasticity

3C. Auditory pathway and Brain stem auditory evoked response

3D. Hyponatremia in neurosurgery

3E. Classification of gliomas

3F. Etiopathogenesis of cerebral aneurysms

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY**

Wednesday, July 15, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory.**

✍ **Long essays.**

1. Etiopathogenesis, clinical features, and management guidelines for syringomyelia. (20 marks)

2. Diagnosis of atlantoaxial instability and basic principles of fixation. (20 marks)

3. **Write short notes:**

3A. Spinal AVmalformations

3B. Mesial temporal sclerosis

3C. Cerebral revascularization procedures for ischemic stroke

3D. Bell's palsy

3E. Cerebral venous thrombosis

3F. Colloid cyst of the third ventricle – surgical options

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2015****SUBJECT: PAPER III: CLINICAL NEUROSURGERY**

Thursday, July 16, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory:**

✍ **Long Essays:**

1. Describe the pathophysiology, classification and management of hydrocephalus with special mention on the various newer shunt systems.

(20 marks)

2. Discuss the preop evaluation for epilepsy surgery, and describe in brief various types of epilepsy surgery.

(20 marks)

3. **Write short notes:**

3A. Describe the pathophysiology, clinical features and various management options for trigeminal neuralgia.

3B. Neurosurgical implications of HIV

3C. Neurocysticercosis

3D. Moyamoya disease

3E. Write briefly on Surgical approaches to the orbit

3F. Surgical approaches to the posterior third ventricle

(10 marks × 6 = 60 marks)



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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2015

SUBJECT: PAPER IV: RECENT ADVANCES, NEURORADIOLOGY

Friday, July 17, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory.**

✍ **Long essays:**

1. Carotid endarterectomy versus carotid stenting.

(20 marks)

2. Coiling versus clipping of cerebral aneurysms.

(20 marks)

3. **Write short notes:**

3A. Brain death

3B. Noble prize winners in neurosurgery

3C. Onyx in interventional neuroradiology

3D. Vertebroplasty

3E. Radiosurgery for acoustic neuromas

3F. Spinal endoscopy

(10 marks × 6 = 60 marks)

