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MANIPAL ACADEMY OF HIGHER EDUCATION

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2018

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, December 04, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory.**

✍ **Long Essay:**

1. Discuss in detail about types, pathophysiology and management of cerebral oedema. (20 marks)
2. Discuss physiology of CSF production, absorption and circulation. Add a note on various ICP monitoring techniques and management of raised ICP. (20 marks)

3. **Short Essays:**

- 3A. Functional MRI
- 3B. Awake craniotomy
- 3C. Taylor Haughton lines
- 3D. Blood supply to the spinal cord
- 3E. Carotid vertebrobasilar anastomosis
- 3F. Hemostasis in Neurosurgery

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2018
SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY

Wednesday, December 05, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory.**

✍ **Long Essay:**

1. Etiopathogenesis, clinical features, and management guidelines for trigeminal neuralgia.
(20 marks)
2. CNS tuberculosis – pathogenesis, clinical manifestations and management guidelines
(20 marks)

3. **Short Notes:**

- 3A. Dural AV fistulas
- 3B. Spondylolisthesis
- 3C. Cortical dysplasias
- 3D. Entrapment neuropathies
- 3E. Caroticoavernous fistulas
- 3F. Idiopathic intracranial hypertension

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2018****SUBJECT: PAPER III: CLINICAL NEUROSURGERY**

Thursday, December 06, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **All questions are compulsory.**
- ✍ **Draw diagrams whenever necessary.**

✍ **Long Essay:**

1. Management of a patient with brachial plexus injury (20 marks)

2. Pathophysiology of spinal cord injury (20 marks)

3. **Short Notes:**

3A. Post traumatic CSF rhinorhea

3B. Traumatic optic nerve injury

3C. Brain Death

3D. Carotico cavernous fistula

3E. Growing skull fractures

3F. Cervical ossified posterior longitudinal ligament (OPLL) – clinical features and management principles

(10 marks × 6 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2018
SUBJECT: PAPER IV: RECENT ADVANCES, NEURORADIOLOGY

Friday, December 07, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Surgery for cerebral ischemia

(20 marks)

2. Craniovertebral junction stabilization techniques

(20 marks)

3. **Short Notes:**

3A. Intraoperative neurophysiological monitoring

3B. Functional hemispherectomy

3C. Management of cerebral metastasis

3D. Management of incidental aneurysms

3E. Decompressive craniectomy for Stroke

3F. Gazi Yasergil

(10 marks × 6 = 60 marks)

