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MANIPAL ACADEMY OF HIGHER EDUCATION M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2023 SUBJECT: PAPER I

Monday, December 11, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- ∠ Long Essay:
- 1. Describe the pathophysiology of raised intracranial pressure and describe the cerebral herniation syndromes.

(20 marks)

2. Surgical anatomy of the fourth ventricle.

(20 marks)

- 3. Write briefly on:
- 3A. Auditory pathway and Brain stem auditory evoked response
- 3B. Hyponatremia in neurosurgery
- 3C. Diabetes insipidus
- 3D. Grade II meningiomas
- 3E. Blood supply to the spinal cord
- 3F. Tumour markers

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MANIPAL ACADEMY OF HIGHER EDUCATION

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2023

SUBJECT: PAPER II

Tuesday, December 12, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- ∠ Long Essay:
- 1. Discuss in detail about the origin, course, branches and disorders of 7th cranial nerve.

(20 marks)

2. Classify seizures. Define status epilepticus and discuss the management of status epilepticus. Add a note on newer anticonvulsants.

(20 marks)

- 3. Short Essays:
- 3A. Babinski sign
- 3B. Brain death
- 3C. Frontal lobe signs
- 3D. Neurogenic bladder
- 3E. Superior orbital fissure
- 3F. Cross section of midbrain of superior collicular level

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MANIPAL ACADEMY OF HIGHER EDUCATION

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2023

SUBJECT: PAPER III

Wednesday, December 13, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- ∠ Long Essay:
- 1. Management of incidental intracranial aneurysms.

(20 marks)

2. Management of thoracolumbar fractures.

(20 marks)

- 3. Short notes:
- 3A. GH secreting adenomas diagnosis and management strategies
- 3B. Failed back surgery syndrome
- 3C. Craniopharyngioma classification and surgical corridors
- 3D. Clival chordoma pathology, clinical features and management strategies
- 3E. Chiasmal/hypothalamic glioma
- 3F. CNS lymphoma

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – DECEMBER 2023

SUBJECT: PAPER IV

Thursday, December 14, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.

- 1. Newer techniques in aneurysm coiling

(20 marks)

2. Surgery for movement disorders

(20 marks)

- 3. Write Short Notes on:
- 3A. Carotid endartrectomy vs stenting debate
- 3B. Spinal AVM Types and Management.
- 3C. Imaging in acute stroke
- 3D. Stem cells in neurosurgery
- 3E. Gazi Yasergil
- 3F. Motion preserving spine stabilization surgery