

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JUNE 2004

SUBJECT: PAPER – I
Tuesday, June 22, 2004

Max. Marks: 100

Time: 3 Hrs.

- ☞ Answer all the questions.
☞ Illustrate your answers with diagrams wherever appropriate.

1. Write briefly on:
 - 1A. Petrous apex.
 - 1B. Ocular fundus.
 - 1C. Fourth ventricle.
2. Discuss the embryology, anatomy and blood supply of pituitary gland.
3. Draw and label the structure seen in the cross section of the midbrain at the superior collicular level.
4. Discuss the physiology of CSF production, absorption and circulation.
5. Describe the function and connections of the structures forming the limbic system.



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M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JUNE 2004

SUBJECT: PAPER – II: CLINICAL NEUROSURGERY

Wednesday, June 23, 2004

Max. Marks: 100

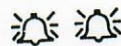
Time: 3 Hrs.

- Answer all the questions. All questions carry equal marks.**
Illustrate your answers with diagrams wherever appropriate.

1. Describe the surgical anatomy of choroidal fissure and its surgical implications in removing tumours of anterior and mid third ventricle.

2. Discuss:
 - 2A. Role of lumbar puncture in subarachnoid haemorrhage.
 - 2B. Conus syndrome.
 - 2C. Management protocol for prolactinomas.

3. Write short notes on:
 - 3A. Current status of carotid endarterectomy.
 - 3B. Anterior clinoidal meningiomas.
 - 3C. Empty sella syndrome.



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M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JUNE 2004

SUBJECT: PAPER – III
Thursday, June 24, 2004

Max. Marks: 100

Time: 3 Hrs.

- Answer all the questions. All questions carry equal marks.**
Illustrate your answers with diagrams wherever appropriate.

1. Discuss the factors influencing the hearing outcome following surgery for vestibular schwannoma.

2. Discuss:
 - 2A. Endovascular treatment of intracranial aneurysms.
 - 2B. Surgical treatment of Parkinsonism.
 - 2C. Magnetic Resonance Spectroscopy.

3. Write short notes on:
 - 3A. Artificial disc.
 - 3B. Intraoperative SSEP.
 - 3C. Contributions of James Poppen.



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