

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2003

SUBJECT: PAPER – I
Tuesday, July 01, 2003

Max. Marks: 100

Time: 3 Hrs.

Answer all the questions.

Illustrate your answers with diagrams wherever appropriate.

1. Discuss the pathophysiology and the management of cerebral oedema.

(25 marks)

2. Write Short Notes on:

2A. Spasticity.

2B. Cerebral Vasospasm.

2C. Posterior Circulation of the Brain

2D. Functional MRI

2E. Spinothalamic tract.

(15×5 = 75 marks)

K. M. C. LIBRARY



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2003

SUBJECT: PAPER – II: CLINICAL NEUROSURGERY
Wednesday, July 02, 2003

Time: 3 Hrs.

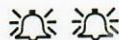
Max. Marks: 100

✍ Answer all the questions.

✍ Illustrate your answers with diagrams wherever appropriate.

1. Discuss the neuroradiological diagnosis of spinal cord tumours.
2. Classify arterio-venous malformations of brain, mode of presentation and discuss the management.
3. Discuss the pathology of developmental brain tumours.
4. Write Short notes on:
 - 4A. Failed back syndrome.
 - 4B. Carotid endarterectomy.
 - 4C. Pharmacotherapy of Spasticity.

K. M. C. LIBRARY



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2003

SUBJECT: PAPER – III
Thursday, July 03, 2003

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the recent trends in surgery for Epilepsy.

2. Write short notes on:
 - 2A. Surgery for stroke.
 - 2B. Temporal lobe contusion syndrome.
 - 2C. Glioblastoma Multiforme.

3. Discuss:
 - 3A. Arnold – Chiari Malformation.
 - 3B. Tethered Cord Syndrome.
 - 3C. Stereotactic – Radiosurgery.

K. M. C. LIBRARY



MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2003

SUBJECT: PAPER – I
Monday, December 01, 2003

Max. Marks: 100

Time: 3 Hrs.

-
- ✗ Answer all the questions.
 - ✗ Illustrate your answers with diagrams wherever appropriate.
 - ✗ Each question carries 10 marks.
-

1. Describe the neuroanatomy and physiology of erection and ejaculatory apparatus.
2. Describe various types of brain herniation and its pathology.
3. Neuroanatomy of Dorello's canal.
4. Glycoprotein hormones
5. Pathology of neurocytomas
6. Role of hormones in meningiomas
7. Pathogenesis of brain abscess
8. Neurophysiology of saccadic and pursuit gaze
9. Cerebral autoregulation
10. Cross section of spinal cord at C5 level showing lamination of white matter tracts and ventral horn nuclei.

K. M. C. LIBRARY



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2003

SUBJECT: PAPER – II: CLINICAL NEUROSURGERY

Tuesday, December 02, 2003

Time: 3 Hrs.

Max. Marks: 100

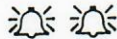
☞ Answer all the questions.

☞ Illustrate your answers with diagrams wherever appropriate.

1. Discuss the management of Cerebro Spinal Fluid rhinorrhoea.

2. Write Short Notes on:
 - 2A. Diffuse axonal Injury
 - 2B. Carotid Cavernous fistula
 - 2C. Pituitary Microadenoma

3. Discuss the management of Sub-arachnoid Haemorrhage due to rupture of left MCA Aneurysm.



K. M. C. LIBRARY

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2003**SUBJECT: PAPER – III**

Wednesday, December 03, 2003

Time: 3 Hrs.

Max. Marks: 100

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

1. Discuss the clinical features, differential diagnosis and investigations of mass lesions arising within the Cavernous Sinus.

2. Describe the steps of an operation for the excision of an acoustic Neurinoma with special emphasis on crucial stages and vital structures (retromastoid approach).

3. Write short notes on:
 - 3A. Normal pressure hydrocephalus
 - 3B. Gamma Knife
 - 3C. Sir Victor Horsley
 - 3D. Neurogenic bladder.

**K. M. C. LIBRARY**