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MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MCh (NEUROSURGERY) DEGREE EXAMINATION – JULY 2002

SUBJECT: PAPER – I

Monday, July 01, 2002

Time: 3 Hrs.

Max. Marks: 100

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- ☞ **Answer all the questions.**
☞ **Each question carries TEN marks.**
☞ **Illustrate your answers with diagrams wherever appropriate.**
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1. Embryology of craniovertebral junction.
2. Surgical anatomy of Meckel's cave.
3. Pathogenesis of cerebral aneurysms.
4. Biochemical markers of brain damage.
5. Physiology of neural control of respiration
6. Pathogenesis of brain oedema
7. Pathology of neurocysticercosis
8. Neurophysiology of bladder control
9. Classification of gliomas
10. Visual pathway and field cuts at various levels.

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MANIPAL ACADEMY OF HIGHER EDUCATION
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MCh (NEUROSURGERY) DEGREE EXAMINATION – JULY 2002

SUBJECT: CLINICAL NEUROSURGERY - PAPER – II

Tuesday, July 02, 2002

Time: 3 Hrs.

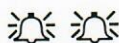
Max. Marks: 100

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- **Answer all the questions.**
 - **All questions carry equal marks.**
 - **Illustrate your answers with diagrams wherever appropriate.**
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1. Classification of posterior fossa basal meningiomas and various surgical approaches to these lesions.

2. Discuss:
 - 2A. Perinaud's syndrome
 - 2B. Investigation and management of a patient of Cushing syndrome
 - 2C. Pefusion break through syndrome

3. Write short notes on:
 - 3A. Esthesioneuroblastoma
 - 3B. Cystic vestibular schwannomas
 - 3C. Posterior communicating artery aneurysms



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MANIPAL ACADEMY OF HIGHER EDUCATION

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MCh (NEUROSURGERY) DEGREE EXAMINATION – JULY 2002

SUBJECT : PAPER – III

Wednesday, July 03, 2002

Time: 3 Hrs.

Max. Marks: 100

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- ✍ Answer all the questions.
 - ✍ All questions carry equal marks.
 - ✍ Illustrate your answers with diagrams wherever appropriate.
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1. Discuss the various factors in the decision making for selection of the operative approach for vestibular schwannoma

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2. Discuss:

2A. Endovascular treatment of arterio-venous fistulas of the Cavernous sinus.

2B. Evaluation and surgical treatment of intractable temporal lobe epilepsy.

2C. Neuronal protection – Current status.

3. Write short notes on:

3A. Intraoperative ultrasound

3B. Vertebroplasty

3C. Contributions of Victor Horsley



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MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MCh (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2002

SUBJECT: PAPER – I

Monday, December 02, 2002

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

✍ Illustrate your answers with diagrams wherever appropriate.

1. Write short note on Microanatomy of *Cavernous Sinus*.
2. Microsurgical Anatomic features of the Lamina Terminalis.
3. Cold caloric response.
4. Describe the anatomy of the fourth ventricle.
5. Describe the blood supply of the spinal cord.
6. Describe the divisions and connections of main motor nucleus of thalamus and globus pallidus.
7. Draw and label the main structures in a cross section of the pons at the midpontine level.
8. Discuss the regulation of muscle tone and the pathophysiology of Spasticity.
9. Free radical scavengers.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MCh (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2002

SUBJECT: PAPER – II - CLINICAL NEUROSURGERY

Tuesday, December 03, 2002

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions.

Illustrate your answers with diagrams wherever appropriate.

1. Describe the pathology of schwannoma and discuss the role of genetics in neurofibromatosis.
2. Write short notes on immune markers in brain tumours.
3. Discuss in detail clinical presentation of Cranio-Pharyngioma and its management.
4. Write briefly on:
 - 4A. Anterior cervical disectomy
 - 4B. Radio Surgery
 - 4C. Chronic subdural haematoma.

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