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MANIPAL UNIVERSITY

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2007

SUBJECT: PAPER – I

Monday, July 02, 2007

Time: 3 Hrs.

Max. Marks: 100

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

1. Write short notes on:
 - 1A. Anatomical variations of vein of Labbe and its surgical implications.
 - 1B. Anatomy of trigeminal nerve at the root entry zone.
 - 1C. Biochemical markers of brain damage.
2. Pathological features of common paediatric temporal lobe tumors producing intractable epilepsy.
3. Pathology of primary central nervous system lymphoma.
4. Pathogenesis of paediatric intracranial abscess.
5. Pathogenesis of intracranial aneurysms.



Reg. No.

Health Sciences Library

MANIPAL UNIVERSITY

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2007

SUBJECT: PAPER – II: CLINICAL NEUROSURGERY

Tuesday, July 03, 2007

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.
1. Describe the management options and surgical approaches to basilar top aneurysms.
 2. Discuss:
 - 2A. Failed back syndrome.
 - 2B. Clovis Vincent.
 - 2C. Hemispherectomy for paediatric epilepsy.
 3. Write short notes on:
 - 3A. Clinical presentation and management of Vein of Galen malformation.
 - 3B. Slit ventricle syndrome.
 - 3C. Innovative treatments for intracranial gliomas.



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

1. Discuss the management of unilateral unruptured aneurysm.

2. Discuss:
 - 2A. Deep brain stimulation – physiology and indications.
 - 2B. Surgical therapy for neuro degenerative disorders.
 - 2C. Pathophysiology and methods of neuronal protection in severe head injury.

3. Write short notes on:
 - 3A. Management of brainstem Glioma.
 - 3B. Cervical spondylosis – management.
 - 3C. Diffusion tensor imaging.



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MANIPAL UNIVERSITY

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: PAPER – I

Monday, December 03, 2007

Time: 3 Hrs.

Max. Marks: 100

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

1. Write short notes on:
 - 1A. Basal ganglia circuits.
 - 1B. Ascending tracts in the spinal cord.
 - 1C. Boundaries of the foramen of Monro.
2. Intracranial pathology in von Hippel Lindau disease.
3. Somatosensory evoked potentials and their value.
4. Different classifications of gliomas.
5. Cerebral blood flow in normal and abnormal states.



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MANIPAL UNIVERSITY

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: PAPER – II

Tuesday, December 04, 2007

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with diagrams wherever appropriate.**

1. Describe the management options for cervical spondylotic myelopathy.

2. Discuss:
 - 2A. Syringomyelia.
 - 2B. Intraoperative ultrasound.
 - 2C. Guglielmi detachable coils.

3. Write short notes on:
 - 3A. Vasospasm.
 - 3B. Transsphenoidal surgery.
 - 3C. Jacob Chandy.



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MANIPAL UNIVERSITY

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: PAPER – III

Wednesday, December 05, 2007

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer ALL the questions.**
- ✍ **Illustrate your answers with diagrams wherever appropriate.**
1. Discuss the management of cerebral arteriovenous malformations.

 2. Discuss:
 - 2A. Artificial cervical disc.
 - 2B. Deep brain stimulation for Parkinson disease.
 - 2C. Cerebral salt wasting syndrome.

 3. Write short notes on:
 - 3A. Recent advances in the management of malignant gliomas.
 - 3B. Hearing preservation in vestibular schwannomas.
 - 3C. Hypothalamic hamartomas.

