

MANIPAL UNIVERSITY**M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2008****SUBJECT: PAPER – I**

Tuesday, July 01, 2008

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

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

1. Write short notes on:
 - 1A. Anatomy of the craniovertebral junction.
 - 1B. Anatomy of the cavernous sinus.
 - 1C. Name the dural sinuses and their tributaries and drainage.
2. Mechanisms of micturition.
3. Pathology of meningiomas.
4. Pathological changes in the brain due to head injury.
5. Draw and label the limbic circuits.

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M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2008

SUBJECT: PAPER – II: CLINICAL NEUROSURGERY

Wednesday, July 02, 2008

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

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

1. Describe the management of functioning pituitary tumours.

2. Discuss:

2A. Single small enhancing CT lesions in patients with seizures.

2B. Brachycephaly.

2C. Management of shunt infections.

3. Write short notes on:

3A. Tethered cord

3B. Approaches to trigonal masses

3C. Mohd. Gazi Yasargil.

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M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2008

SUBJECT: PAPER – III

Thursday, July 03, 2008

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

✍ Illustrate your answers with diagrams wherever appropriate.

1. Discuss the management of spinal vascular malformations.

2. Discuss:
 - 2A. Magnetic resonance spectroscopy.
 - 2B. Stereotactic radiosurgery for vestibular schwannomas.
 - 2C. Radiofrequency rhizotomy for trigeminal neuralgia.

3. Write short notes on:
 - 3A. Trigeminal schwannoma.
 - 3B. Selective amygdalo – hippocampectomy.
 - 3C. Spinal ependymomas.

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