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MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER – I
Monday, July 03, 2006

Time: 3 Hrs.

Max. Marks: 100

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

1. Write briefly on:

- 1A. Optic chiasma and its anatomical relationship.
- 1B. Medial temporal lobe.
- 1C. Middle cerebellar peduncle.

2. Discuss the anatomy and physiological connections of basal ganglia.

3. Discuss the anatomy of cisterns of posterior cranial fossa.

4. Discuss the nuclear divisions of hypothalamus and its physiological connections.

5. Discuss blood brain barrier and mechanism of ionic transport.



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MANIPAL ACADEMY OF HIGHER EDUCATION

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M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER – II: CLINICAL NEUROSURGERY

Tuesday, July 04, 2006

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. Discuss the micro surgical anatomy of cavernous sinus.

2. Discuss:
 - 2A. Patho physiology of movement disorders.
 - 2B. Medical management of pituitary adenomas.
 - 2C. Patho physiology of brain edema.

3. Write short notes on:
 - 3A. Encephalins.
 - 3B. Microglia and its role in immune system (CNS).
 - 3C. Chanalopathies.



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MANIPAL ACADEMY OF HIGHER EDUCATION

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M.Ch. (NEUROSURGERY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER – III

Wednesday, July 05, 2006

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. Discuss the pathological and radiological features of carotid and vertebral artery dissection.

2. Discuss:
 - 2A. Types of invasive epilepsy monitoring.
 - 2B. Intraoperative neurophysiological monitoring in intramedullary spinal tumors.
 - 2C. Role of NMDA and AMPA receptors in secondary CNS injury.

3. Write short notes on:
 - 3A. Drug interactions with common antiepileptic drugs.
 - 3B. Brain death.
 - 3C. Stenting versus endarterectomy for carotid artery disease.



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