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MANIPAL UNIVERSITY

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2012

SUBJECT: PAPER I: NEUROBASIC SCIENCES

Saturday, July 07, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ **All questions carry TEN marks each.**

1. Oculovestibular reflex
2. Stretch reflex
3. Blood supply of spinal cord
4. Cerebellar peduncles
5. Microsurgical anatomy of anterior cerebral artery
6. Ligaments at craniovertebral junction
7. Functions of hypothalamus
8. Blood brain barrier
9. Physiology of intracranial pressure
10. Pathology of medulloblastoma



MANIPAL UNIVERSITY**M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2012****SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY**

Monday, July 09, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **All questions are compulsory. All questions carry equal marks.**

✍ **Write briefly on:**

1. Etiopathogenesis, clinical features, grading and management guidelines for cerebral AVMs
2. Diagnosis of spinal instability and basic principles of spinal instrumentation
3. Caroticocavernous fistula
4. Pyogenic Brain abscess
5. Fungal infections of the brain
6. Post traumatic epilepsy
7. Intramedullary spinal cord tumours – types and clinical features
8. Moya Moya disease
9. Chiari malformation – types and clinical features
10. Craniostenosis – classification and management principles



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MANIPAL UNIVERSITY

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2012

SUBJECT: PAPER III: CLINICAL NEUROSURGERY INCLUDING OPERATIVE NEUROSURGERY

Wednesday, July 11, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ All questions carry TEN marks each.

1. Complications of craniopharyngioma surgery
2. Surgical management of optic nerve glioma
3. Management of ruptured basilar tip aneurysm
4. Cervical laminoplasty
5. Surgical management of spinal intramedullary tumors
6. Post operative posterior fossa pseudomeningocele
7. Surgical approach to atrium of lateral ventricle
8. Surgical approaches to the clivus
9. Dural A-V fistula
10. Complications of VP shunt surgery



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MANIPAL UNIVERSITY

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2012

**SUBJECT: PAPER IV: RECENT ADVANCES IN NEUROSCIENCES,
NEURORADIOLOGY AND HISTORY OF NEUROSURGERY**

Friday, July 13, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ All questions are compulsory. All questions carry equal marks.

✍ Write briefly on:

1. MR tractography and its implications
2. PET in neurosurgery
3. Frameless neuronavigation
4. Psychosurgery
5. Surgical procedures for pain
6. Gliomatosis cerebri
7. Measurement of Cerebral blood flow
8. Endoscopic third ventriculostomy – indications, limitations and complications
9. Solitary cerebral metastasis- management strategy
10. Gazi Yasergil

