

**MANIPAL UNIVERSITY****M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2014****SUBJECT: PAPER I: NEUROBASIC SCIENCES**

Saturday, July 05, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Describe the pathophysiology of raised intracranial pressure describe the cerebral herniation syndromes.
2. Surgical anatomy of the fourth ventricle
3. Neurophysiology of spasticity
4. Auditory pathway and Brain stem auditory evoked response
5. Hyponatremia in neurosurgery
6. Diabetes insipidus
7. Grade II meningiomas
8. Blood supply to the spinal cord
9. Tumour markers
10. Newer antiepileptic drugs



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**M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2014**

**SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY**

Monday, July 07, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Somatosensory evoked potential
2. Ki 67 index
3. Clinical features of damage to left temporal lobe
4. Clinical features of facial nerve palsy
5. Erbs palsy
6. Critical care management for severe head injury
7. Post traumatic seizure
8. Treatment of status epilepticus
9. Cerebral vasospasm
10. Benign intracranial hypertension



**MANIPAL UNIVERSITY****M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2014****SUBJECT: PAPER III: CLINICAL NEUROSURGERY INCLUDING OPERATIVE NEUROSURGERY**

Wednesday, July 09, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Giant intracranial aneurysms
2. Slit ventricle syndrome
3. GH secreting adenomas – diagnosis and management strategies
4. Failed back surgery syndrome
5. Craniopharyngioma – classification and surgical corridors
6. Clival chordoma – pathology, clinical features and management strategies
7. Chiasm/hypothalamic glioma
8. Basilar top aneurysm – surgical approaches
9. ISAT trial and after
10. CNS lymphoma



## MANIPAL UNIVERSITY

### M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2014

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

Friday, July 11, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**All questions carry TEN marks each.**

1. Management of basilar invagination.
2. Management of anaplastic oligodendrogliomas.
3. Imaging and management of brainstem cavernomas.
4. Stereotactic radiosurgery for vestibular schwannomas.
5. Management of a 16 year old boy with a posterior third ventricular tumor.
6. Preoperative evaluation of a 4 year old child with right infantile hemiplegia and intractable seizures.
7. Neuroradiological differential diagnoses of a lateral intraventricular tumor.
8. Application of Positron emission tomography in imaging of gliomas.
9. Motor evoked potential monitoring in spinal cord surgery.
10. Contributions of Walter Dandy to neurosurgery.

