Reg. No.					

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER I: BASIC SCIENCES

Monday, July 10, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

∠ All questions are compulsory.

∠ Long essay:

- 1. Describe the pathophysiology of raised intracranial pressure and describe the cerebral herniation syndromes
- 2. Surgical anatomy of the fourth ventricle

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$

3. Write briefly on:

- 3A. Auditory pathway and Brain stem auditory evoked response
- 3B. Hyponatremia in neurosurgery
- 3C. Diabetes insipidus
- 3D. Grade II meningiomas
- 3E. Blood supply to the spinal cord
- 3F. Tumour markers

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$



|--|

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2017 SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY

Tuesday, July 11, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

All questions are compulsory.

∠ Long essay:

- 1. Discuss the management strategies in a child with medulloblastoma.
- 2. Failed back surgery causes and management principles.

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$

3. Short essays:

- 3A. Craniosynostosis classification and management principles
- 3B. Recurrent craniopharyngiomas management dilemmas
- 3C. Idiopathic intracranial hypertension
- 3D. Dandy walker cyst
- 3E. Spinal AVM classification
- 3F. Mycotic aneurysms

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

Reg. No.			

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER III: CLINICAL NEUROSURGERY

Wednesday, July 12, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- Essay:
- 1. Management of a patient with an unstable cervical spine fracture and quadriparesis
- 2. Management of Odontoid fractures

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$

- 3. Short Essays:
- 3A. Diffuse axonal injury
- 3B. Motion preserving spine surgery
- 3C. Carpal tunnel syndrome
- 3D. Post traumatic seizures
- 3E. Management of facial nerve palsy following cerebellopontine angle surgery
- 3F. Lumbar canal stenosis diagnosis and management

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$

Reg. No.		

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2017

SUBJECT: PAPER IV: RECENT ADVANCES, NEURORADIOLOGY

Thursday, July 13, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Draw diagrams wherever necessary.
- Essay:
- 1. Surgery for refractory epilepsy
- 2. Spinal Arterio venous malformations classification and management

 $(20 \text{ marks} \times 2 = 40 \text{ marks})$

- 3. Short notes:
- 3A. Fetal neurosurgery
- 3B. Role of DTI (Diffusion tensor imaging) in neurosurgery
- 3C. PET in neurosurgery
- 3D. MoyaMoya disease
- 3E. Functional MRI
- 3F. Brain stem gliomas

 $(10 \text{ marks} \times 6 = 60 \text{ marks})$