Reg. No.		
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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION - JULY 2018

SUBJECT: PAPER I: BASIC SCIENCES

Monday, July 09, 2018

All questions are compulsory.

Max. Marks: 100

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Long essay:

Time: 14:00 - 17:00 Hrs.

1. Anatomy of cavernous sinus.

(20 marks)

2. Surgical anatomy of foramen magnum.

(20 marks)

- 3. Short notes:
- 3A. Taylor Haughton lines
- 3B. Venous anatomy of brain
- 3C. Third ventricle and its boundaries
- 3D. Anatomy of internal capsule
- 3E. Internuclear opthalmoplegia
- 3F. Labelled diagram of spinal cord with various tracts and blood supply

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

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Reg. No.			

M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2018

SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY

Tuesday, July 10, 2018

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ∠ Long Essay:
- 1. Discuss the management controversies in a patient with hypertensive intracerberal hematoma.

(20 marks)

2. Trigeminal neuralgia – selection of management options.

(20 marks)

- 3. Short Notes:
- 3A. Split cord malformations
- 3B. Pyogenic Brain abscess
- 3C. Unruptured Incidental intracranial aneurysms- management controversies
- 3D. Endoscopic third ventriculostomy principles, indications and complications
- 3E. Low grade gliomas management controversies
- 3F. Decompressive craniectomy for stroke

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



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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION - JULY 2018

SUBJECT: PAPER III: CLINICAL NEUROSURGERY

Wednesday, July 11, 2018

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- All questions are compulsory.
- Essay:
- 1. Pathophysiology, classification and management of hydrocephalus with special mention on the various newer shunt systems.

(20 marks)

2. Motion preserving spinal stabilization surgeries.

(20 marks)

- 3. Short Notes:
- 3A. Discuss the preop evaluation for epilepsy surgery, and various types of epilepsy surgery.
- 3B. Basilar invagination.
- 3C. Foramen magnum meningioma clinical features and Surgical approaches.
- 3D. Hemangioblastoma pathogenesis, genetics and radiology.
- 3E. Lumbar canal stenosis clinical features, radiology and management.
- 3F. Hypothalamic hamartoma.

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



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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2018

SUBJECT: PAPER IV: RECENT ADVANCES, NEURORADJOLOGY

Thursday, July 12, 2018

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Essay:
- 1. Clipping vs coiling for intracranial aneurysms discuss the controversy.

(20 marks)

2. Deep brain stimulation for Parkinsons disease.

(20 marks)

- 3. Short Essays:
- 3A. Stem cells in neurosurgery
- 3B. Vagal nerve stimulation for refractory epilepsy
- 3C. Progammable shunts
- 3D. Surgery for intracerebral metastasis
- 3E. Intervention neuroradiology in the management of acute ischemic stroke
- 3F. Endoscopic surgery for lumbar intervertebral disc prolapse

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

