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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER I: BASIC SCIENCES

Wednesday, July 01, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ∠ Long essay:
- 1. Spinal Neural tube defects embryology and pathogenesis.

(20 marks)

2. Deep venous system of the brain.

(20 marks)

- 3. Short notes:
- 3A. Visual pathway and corresponding field deficits
- 3B. Neural plasticity
- 3C. Craniopharyngioma pathogenesis, classification and hormonal implications
- 3D. Calcium channel blockers
- 3E. Vasospasm etiopathogenesis
- 3F. Neurofibromatois

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

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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER II: CLINICAL NEUROLOGY AND NEUROSURGERY

Thursday, July 02, 2020

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Max. Marks: 100

- All questions are compulsory.
- ∠ Long Essay:
- 1. Describe the etiopathogenesis, clinical features, grading and management guidelines for cerebral AVMs.

(20 marks)

2. Diagnosis of spinal instability and basic principles of spinal instrumentation.

(20 marks)

- 3. Short Notes:
- 3A. Discuss the anatomy, pathophysiology, radiology and management issues in cervical spondylosis.
- 3B. Diffuse axonal injuries
- 3C. Post traumatic epilepsy
- 3D. Grade II Meningiomas
- 3E. Cushings disease
- 3F. Medulloblastoma prognostic indicators & current management policies.

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

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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER III: CLINICAL NEUROSURGERY

Friday, July 03, 2020

Time: 14:00 – 17:00 Hrs. Max. Marks: 100

- 1. Discuss in details about microsurgical anatomy of tentorial incisura.

(20 marks)

2. Discuss in detail about pathophysiology, diagnosis, non operative percutaneous procedures and surgical management of trigeminal neuralgia.

(20 marks)

- 3. Short Essays:
- 3A. Anatomy and biomechanics of CV junction
- 3B. Unusal gliomas
- 3C. Growing skull fractures
- 3D. Spondylolisthesis
- 3E. Traumatic CSF fistulas
- 3F. Cerebral vasospasm

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

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M.Ch. (NEURO SURGERY) DEGREE EXAMINATION – JULY 2020

SUBJECT: PAPER IV: RECENT ADVANCES, NEURORADIOLOGY

Saturday, July 04, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- & Essay:
- 1. Surgery for movement disorders.

(20 marks)

2. Minimal access spinal surgical techniques.

(20 marks)

- 3. Short Notes:
- 3A. Functional MRI
- 3B. Surgical procedures for pain
- 3C. Gliomatosis cerebri
- 3D. Endoscopic third ventriculostomy indications, limitations and complications
- 3E. Solitary cerebral metastasis- management strategy
- 3F. Prof. B Ramamurthi

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