

POST-DOCTORAL DEGREE EXAMINATION – AUGUST 2021

M.Ch. NEUROSURGERY

Time: 3 Hours

Max. Marks: 100

PAPER – I
Basic Sciences

Q.P. Code: 1521

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe microsurgical anatomy of Tentorial Incisura.
2. Discuss blood supply of spinal cord.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Mannitol.
4. Internal capsule.
5. Aphasia.
6. Normal fundus examination.
7. Harvey Cushing.
8. Reticular formation.

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PAPER – II
General Neurosurgery

Q.P. Code: 1522

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Diagnostic workup for Cushing's syndrome.
2. Classification and management of thoracolumbar fractures.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Locked in syndrome.
4. Dandy walker syndrome.
5. Depressed skull fracture.
6. SIADH (Syndrome of Inappropriate secretion of Antidiuretic Hormone).
7. MCA (Middle Cerebral Artery) bifurcation aneurysms.
8. Split cord malformations.

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**PAPER – III
Allied Neurosciences**

Q.P. Code: 1523

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss pathophysiology of vasospasm.
2. Discuss management of raised intracranial pressure.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Diffusion weighted imaging.
4. Functional MRI.
5. CT cisternogram.
6. Insular gliomas.
7. 5-ALA (5- Aminolevulinic acid) in neurosurgery.
8. Temozolomide.

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**PAPER – IV
Advances in Neurosurgery**

Q.P. Code: 1524

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Brain mapping and its use in clinical practice as well as research tool.
2. Coiling Vs clipping of intracranial aneurysm; outlining the pros and cons of both techniques and how the two techniques can be used as complimentary.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Current state of management of metastatic brain tumours.
4. Biomarkers to predict behavior in brain tumours.
5. Auditory implants for hearing restoration in neurosurgery.
6. New concept of low grade gliomas classification.
7. Thrombectomy for cerebral ischemic stroke.
8. Neural plasticity and Neural regeneration.
