

QP Code:

Reg.No.:.....

**M.Ch (Neuro Surgery) Degree Examinations
(Model Question Paper)**

Paper I – Basic Sciences

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: (20)

1. Draw the visual pathway and discuss the field defects at different levels

Short essays: (8x10=80)

2. Prolactinoma
3. Pathophysiology of cerebral oedema
4. Optic nerve glioma
5. Draw a labelled diagram of brachial plexus
6. Harvey cushing
7. Pathogenesis of syringomyelia
8. Mode of actions of antioedema drugs
9. Brain death

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Paper II – General Principles and Applied Neurosurgery

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: (20)

1. Classification and pathology of pineal tumours with surgical approaches

Short essays: (8x10=80)

2. Neurocysticercosis
3. Empty sella syndrome
4. Desmoplastic medulloblastoma
5. Moya moya disease
6. Diabetes insipidus
7. Aetiopathogenesis and classification of ACM
8. Carotico cavernous fistula (CCF)
9. Transcranial Doppler

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Paper III – Cerebrospinal Trauma and Peripheral Nerve Injuries

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: (20)

1. Post traumatic CSF rhinorrhoea – diagnosis, management and complication

Short essays: (8x10=80)

2. Post traumatic epilepsy
3. Odontoid fracture
4. Gama knife in neurosurgery
5. Spiral neurenteric cyst
6. Arachnoid cyst
7. Colloid cyst anterior 3rd ventricle
8. Carotid endarterectomy
9. Stages of brain abscess – Radiology and management

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Paper IV – Recent Advances

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: (20)

1. Classification of vascular malformation of CNS. Discuss various treatment options.

Short essays: (8x10=80)

2. Magnetic response spectroscopy(MRS)
3. Neuro navigation
4. Cervical disc replacements
5. Tumour markers in brain tumour
6. Cerebral salt wasting syndrome
7. Cerebral revascularization
8. Simpson grading of meningioma excision. Modern principles to know assessment of recurrences
9. DBS in Parkinson disease
