

[LC 032]

FEBRUARY 2013

Sub.Code:1562

M.Ch-NEUROSURGERY

THREE YEARS COURSE – PART –I

Paper – II NEUROCHEMISTRY & NEUROPATHOLOGY

Q.P. Code:181562

**Time: 3 hours
(180 Min)**

Maximum :100 marks

I .Elaborate on:

(2x15marks=30marks)

1. Describe the Pathophysiology of Tuberculous meningitis. Mention the complications of Tuberculosis meningitis and their management.
2. Chiari Malformations. Mention the various theories for Formation of Syringomyelia in the presence of Chiari malformation.

II .Write short notes on:

(10x7marks=70marks)

1. Wallerian degeneration
2. Rathke's Cleft Cyst
3. Subacute combined Degeneration of the Spinal Cord
4. Colloid Cyst of Third Ventricle
5. Acetyl Choline
6. Epidermoid
7. Dopamine
8. Glioblastoma Multiforme
9. GABA
10. Haemangioblastoma

(LD 032)

AUGUST 2013

Sub. Code: 1562

M.Ch. – NEURO SURGERY
THREE YEARS/FIVE YEARS/SIX YEARS COURSE – PART – I/PART – II
Paper – II NEUROCHEMISTRY AND NEUROPATHOLOGY
Q.P.Code: 181562

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Classify tumours of the posterior third ventricle. Enumerate the role of tumour markers in arriving at a diagnosis of posterior third ventricle region tumours.
2. Describe the biochemical changes at the cellular level following trauma to the brain.

II. Write notes on:

(10X7=70)

1. Dopamine.
2. Phenytoin.
3. Melatonin.
4. Vasogenic oedema.
5. Histopathological classification of pituitary adenoma.
6. Aseptic meningitis.
7. Epidermoid tumours.
8. Rathke's cyst.
9. Pathophysiology of tuberculous meningitis.
10. Tonsillar herniation.

(LE 032)

FEBRUARY 2014

Sub. Code: 1562

M.Ch. – NEURO SURGERY
THREE YEARS/FIVE YEARS/SIX YEARS COURSE – PART – I/PART – II
Paper – II NEUROCHEMISTRY AND NEUROPATHOLOGY
Q.P.Code: 181562

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Pathology of posterior third ventricular tumors.
2. Cellular events during a seizure.

II. Write notes on:

(10X7=70)

1. Describe the pathology of medulloblastoma.
2. Describe the pathology of primary CNS lymphoma.
3. The role of proliferative indices in the management of meningiomas.
4. Describe the mechanism of action and side effects of phenytoin.
5. Describe the pathology of Alzheimer's disease.
6. Describe the pathology of fungal granulomas.
7. Describe the pathology of dysembryoplastic neuroepithelial tumors.
8. The role of p53 and EGFR in gliomas.
9. The production and action of dopamine in the CNS.
10. Describe the pathology of radiation necrosis.

[LF 032]

AUGUST 2014

Sub. Code: 1562

M.Ch. – NEURO SURGERY
THREE YEARS / FIVE YEARS / SIX YEARS COURSE
PART – I / PART – II
Paper II – NEUROCHEMISTRY AND NEUROPATHOLOGY
Q. P. Code: 181562

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the WHO classification of astrocytomas and the role of immunocytochemistry in these tumours.
2. Discuss the various types and pathophysiology of cerebral edema.

II. Write notes on:

(10 x 7 = 70)

1. Anti oedema measures.
2. Growth hormone secreting adenoma.
3. Signalling pathways in medulloblastoma.
4. Aseptic meningitis.
5. Hydatid cyst.
6. Sodium valproate.
7. Transtentorial herniation.
8. Encephaloceles.
9. Cerebral Venous infarct.
10. Methyl prednisolone.
