

M.Ch. – NEURO SURGERY

THREE YEARS COURSE

**Paper I – NEUROANATOMY, NEUROPHYSIOLOGY
NEUROCHEMISTRY AND NEUROPATHOLOGY**

Q.P.Code: 181564

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail the cerebrospinal fluid production and circulation with relevant diagrams.
Add a note on the normal cerebrospinal fluid contents and in central nervous system infections.
2. What is nerve action potential?
Write in detail how a nerve conducts an impulse, resting membrane potential and refractory period?

II. Write notes on:

(10 x 7 = 70)

1. Visual evoked potential.
2. Serotonin.
3. Pathological features in meningioma with WHO grading.
4. Blood brain barrier.
5. Noradrenergic transmission.
6. Neuroglia.
7. Folic acid.
8. Cerebral hypoxia.
9. Pathophysiology of seizures.
10. Biochemical changes in head injury.
