QP Code: 101505	Reg. No.:
Q. 0000. 101000	1109. 110

M.Ch. (Neuro Surgery) Degree Supplementary Examinations January 2018

Paper I - Basic Sciences

Time: 3 hrs Max marks:100

- Answer all questions
- Draw diagrams wherever necessary

Essay: (20)

Describe the gross anatomy of the basal ganglia and their connections. Also indicate
the neurotransmitters involved in each circuit.

Short essays: (8x10=80)

- 2. Draw and label a section of the midbrain at the inferior colliculus level.
- 3. Describe the pathology of anaplastic oligoastrocytomas (WHO grade III).
- 4. Describe the pathophysiology of flexor spasms.
- 5. Describe the cellular events during a seizure.
- 6. Describe the connections of the deep cerebellar nuclei.
- 7. Discuss the mechanism of action of carbamazepine.
- 8. Describe the blood supply to the internal capsule.
- 9. Describe the anatomy of the cranio vertebral junction.
