# M.Ch. (Neuro Surgery) Degree Regular/Supplementary Examinations November 2023

# Paper I – Basic Sciences

## Time: 3 hrs

- Answer all questions to the point neatly and legibly
  Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

#### Essay:

1. Describe blood brain barrier, loss of autoregulation and classification, pathophysiology, diagnosis and treatment of cerebral edema.

## Short essays:

- 2. Describe surgical anatomy of cerebello pontine angle and seventh cranial nerve.
- 3. Express your views on neurophysiologic basis of: diffuse axonal injury, cerebral edema in brain tumors.
- 4. Neural basis of posterior rhizotomies for spasticity.
- 5. Short notes on: pituitary hormones, ultrasonic surgical aspirator: principles and applications.
- 6. Pathophysiology of tethered cord syndrome.
- 7. Intracranial pressure regulation.
- 8. Discuss the biomechanics and kinetics of adult cervical spine.
- 9. Immunotherapy of human gliomas, biological glue in neurosurgery.

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## **QP Code: 101505**

(20)

#### (8x10=80)

## Max marks: 100

Reg. No.:....