



**NEURO SURGERY**

**PAPER – I**

NS-2/D/14/21/I

Time : 3 hours  
Max. Marks : 100

**Important instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Newer antiepileptic drugs and their side effects. 5+5
2. Pathogenesis of: 5+5
  - a) Chronic subdural hematoma.
  - b) Growing skull fracture.
3. a) What are various brain herniations? 4+6
  - b) What are the early clinical features of various brain herniations?
4. a) Physiological actions of superior and inferior obliques muscles of eye. 6+4
  - b) Applied importance of greater superficial petrosal nerve.
5. a) Cauda equina syndrome. 4+3+3
  - b) Brown-Sequard syndrome.
  - c) Central cord syndrome.
6. a) What is the meaning of data, information and knowledge? 5+5
  - b) What are the steps to perform a scientific study?
7. Anatomy of ophthalmic artery, its branches and applied importance. 3+3+4
8. Merits and demerits of various surgical approaches to the pineal region tumors. 10
9. a) Intracranial pressure monitoring. 6+4
  - b) Spinal shock.
10. Draw a neat labeled diagram of transverse section of midbrain at superior colliculus level. 10

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