

**NEURO SURGERY**

**PAPER-I**

NS2/D/18/21/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. Hangman Fracture: 3+3+4
  - a) Mechanism of injury.
  - b) Classification.
  - c) Treatment options.
2. SIADH: 3+3+4
  - a) Causes.
  - b) Diagnosis.
  - c) Treatment.
3. Intramedullary tumors of spinal cord: 2+4+4
  - a) Enumerate lesions.
  - b) Myelogram and MRI features.
  - c) Management algorithm
4. Draw diagrams and territory of supply of: 3+3+4
  - a) Greater superficial petrosal nerve.
  - b) Lesser petrosal nerve.
  - c) Deep petrosal nerve.
5. Ependymal tumors: 3+3+4
  - a) 2016 WHO classification.
  - b) Histological diagnosis.
  - c) Prognosis.
6. Draw neat labelled diagrams of: 3+3+4
  - a) Superficial veins of brain.
  - b) Deep venous system of brain.
  - c) Spinal cord venous drainage.

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|---|-------|
| 7. Cerebral autoregulation:   | 3+3+4 |
| a) Cerebral blood flow.   |       |
| b) Monroe-Kelly hypothesis.   |       |
| c) Management of ICP.   |       |
| 8. Orbital tumors:  | 3+3+4 |
| a) Classification.  |       |
| b) Imaging diagnosis of meningioma of optic nerve.                        |       |
| c) Approaches to orbit.   |       |
| 9. Brain death:   | 4+4+2 |
| a) Clinical criteria.   |       |
| b) Ancillary tests.   |       |
| c) Recent controversies.  |       |
| 10. Pituitary adenoma:  | 3+3+4 |
| a) Immunohistochemistry.  |       |
| b) Diagnostic evaluation.   |       |
| c) Post-operative complications of transnasal pituitary adenoma excision. |       |

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