

NEURO SURGERY  
PAPER-I

NS/J/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. Surgical anatomy of Middle Cerebral Artery: 3+2+2+3
  - a) Course
  - b) Segments
  - c) Branches
  - d) Clinical effects on occlusion
2. Physiology of CSF: 2+2+3+3
  - a) Production
  - b) Flow
  - c) Absorption
  - d) Outflow obstruction/restriction with example
3. Spinal cord injuries: 2+3+3+2
  - a) Causes
  - b) Presentations of high cervical cord injury
  - c) Spinal cord injury without radiological evidence
  - d) Prognosis
4. Gliomas: 4+2+4
  - a) WHO classification (year 2016)
  - b) Common sites
  - c) Prognostic factors based on new classification
5. Head Injury: 5+5
  - a) Classification
  - b) Types of diffuse axonal injury
6. In a clinical study: 5+5
  - a) Test applied for significance of a value.
  - b) How to choose sample size in a study?
7. Role of TCD in monitoring in ICU: 3+4+3
  - a) Principles of USG
  - b) Effect of insonation angle on reading
  - c) Confirmation of vasospasm

**P.T.O.**

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|-----|---------------------------------------|---------|
| 8.  | Peripheral nerve injuries:            | 5+5     |
|     | a) Incomplete Brachial plexus injury  |         |
|     | b) Investigations & timing of surgery |         |
| 9.  | Post op seizures:                     | 5+5     |
|     | a) Causes                             |         |
|     | b) Investigations                     |         |
| 10. | Acidosis:                             | 2+2+3+3 |
|     | a) Common causes                      |         |
|     | b) Types                              |         |
|     | c) ABG findings                       |         |
|     | d) Treatment                          |         |

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