

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

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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 | |
