

NEUROSURGERY**PAPER-I**Time: 3 hours
Max. Marks:100

NS 2/J/19/21/I

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. Intra-operative monitoring: 3+3+4
 - a) Somato-sensory evoked potentials.
 - b) Motor evoked potentials.
 - c) Brain-stem auditory evoked potentials.
2. Intra-cranial pressure: 3+3+4
 - a) Monro-Kellie doctrine.
 - b) Volume-Pressure Relationship.
 - c) Intra-cranial pressure monitoring.
3. Diffuse axonal injury: 3+3+4
 - a) Pathophysiology
 - b) Diagnostic studies
 - c) Management
4. Fat embolism: 3+3+4
 - a) Pathophysiology.
 - b) Diagnostic studies.
 - c) Management.
5. Hyponatremia: 4+3+3
 - a) Etiopathogenesis.
 - b) Cerebral salt wasting syndrome.
 - c) SIADH.
6. Whiplash injury: 3+3+4
 - a) Mechanism and pathology.
 - b) Clinical profile.
 - c) Imaging and management.

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7. Post traumatic epilepsy: 3+4+3
a) Classification.
b) Management.
c) Prognosis.
8. Critical care: 5+5
a) ICP monitoring.
b) Ventilation parameters.
9. Tumours of the spinal cord: 3+4+3
a) Pathophysiology of cord compression.
b) Differences between extra and intramedullary tumours.
c) Functional scores in spinal cord disease
10. Regarding cerebral edema: 3+3+4
a) Blood-brain barrier.
b) Aquaporins in the brain.
c) Brain tumours and edema.

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