

NEUROSURGERY(PART-II/FINAL)
PAPER-I

Time: 3 hours
Max. Marks:100

NS2/J/20/21/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. Intracranial pressure(ICP): 5+5
 - a) Role of ICP monitoring in head injury.
 - b) Various methods of ICP monitoring.
2. Optic nerve (2nd cranial nerve): 3+3+4
 - a) Anatomy.
 - b) Course.
 - c) Clinical localization.
3. Surgical anatomy of cerebellopontine angle: 3+2+2+3
 - a) Locations and relations.
 - b) Contents.
 - c) Enumerate various pathologies.
 - d) Surgical approaches.
4. Craniovertebral junction anomaly: 5+5
 - a) Anatomy of the CV junction.
 - b) Craniometrics analysis to diagnose AAD.
5.
 - a) Anatomy of blood brain barrier. 5+5
 - b) Biological significance of areas devoid of blood brain barriers.
6. Cerebrospinal fluid: 5+5
 - a) Pathway and normal physiological values.
 - b) Pathology due to blockage in flow and its management.
7.
 - a) Ligamentum denticulatum. 3+3+4
 - b) Blood supply of spinal cord.
 - c) Conus medullaris.
8. About Traumatic brain injury: 5+5
 - a) Discuss pathogenesis and pathology of axonal injury.
 - b) Classification of diffuse axonal injury.

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9. Elaborate vein of Galen: 5+5
a) Tributaries.
b) Surgical importance.
10. About research methodology: 5+5
a) Blinding in randomized controlled trial.
b) Levels of evidence.
