

NEURO SURGERY (PART-II/FINAL)**PAPER-I**Time: 3 hours
Max. Marks:100

NS2/D/20/21/I

Important Instructions:

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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. Draw a labelled diagram of: 4+3+3
 - a) Superior orbital fissure and structures passing through it.
 - b) Floor of fourth ventricle.
 - c) Histopathology of medulloblastoma.
2. 2+2+3+3
 - a) Draw a pressure volume curve.
 - b) Define cerebral compliance.
 - c) Effect of cerebral perfusion pressure on compliance in traumatic brain injury.
 - d) Risks and benefits of ICP monitoring.
3. 5+5
 - a) Pathogenesis and pathology of traumatic axonal injury.
 - b) How DAI is graded?
4. 7+3
 - a) The process of apoptosis in brain.
 - b) How apoptosis differs from necrosis?
5. 5+5
 - a) Innervation of urinary bladder.
 - b) Physiology of micturition.
6. 3+4+3

Hypernatraemia:

 - a) Diagnostic criteria.
 - b) Management.
 - c) Outcome and complications.

P.T.O.

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7. Surgical anatomy of anterior cerebral artery: 3+2+2+3
a) Course.
b) Segments.
c) Branches.
d) Clinical effects on occlusion.
8. Phenytoin sodium: 3+3+1+3
a) Mechanism of action.
b) Indications.
c) Dose.
d) Side effects.
9. Cavernous sinus: 3+4+3
a) Anatomy.
b) Surgical approaches.
c) Parkinson's triangle.
10. a) Blinding in randomized controlled trial. 5+5
b) Levels of evidence.

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