

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.
 - a) Draw a pressure volume curve. 2+2+3+3
 - b) Define cerebral compliance.
 - c) Effect of cerebral perfusion pressure on compliance in traumatic brain injury.
 - d) Risks and benefits of ICP monitoring.

3.
 - a) Pathogenesis and pathology of traumatic axonal injury. 5+5
 - b) How DAI is graded?

4.
 - a) The process of apoptosis in brain. 7+3
 - b) How apoptosis differs from necrosis?

5.
 - a) Innervation of urinary bladder. 5+5
 - b) Physiology of micturition.

6. Hypernatraemia: 3+4+3
 - 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. | |
