

NEURO SURGERY - DIRECT 6 YEARS COURSE (PART - I)

PAPER-II

Time: 3 hours
Max. Marks:100

NS.1/D/20/22/II

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. Normal pressure hydrocephalus: 3+4+3
 - a) Definition & presentation.
 - b) Pathophysiology and diagnostic tests.
 - c) Various CSF shunt procedures.
2. Lumbar CSF: 3+3+2+2
 - a) Anatomy of lumbar puncture.
 - b) Clinical significance of types of protein.
 - c) Bloody CSF with differential diagnosis.
 - d) Complications of lumbar puncture.
3. Neurosurgical Bio-implants: 4+2+3+1
 - a) Classify and enumerate.
 - b) Indications for usage.
 - c) Mechanism of use.
 - d) Limitations.
4. 4+3+3
 - a) Respiratory patterns in coma.
 - b) Etiology and localization of foot drop.
 - c) Brain stem evoked potential.
5. Tumor pathology of: 4+3+3
 - a) IDH in gliomas.
 - b) Atypical meningioma.
 - c) Chordoma.
6. Anterior cerebral artery: 3+4+3
 - a) Anomalies of anterior cerebral artery.
 - b) Accepted treatment modalities for clinical vasospasm.
 - c) Endovascular techniques in cerebral aneurysms.

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NEURO SURGERY (DIRECT 6 YEARS COURSE) PART-I

PAPER-II

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| 7. | Traumatic brain injuries: | 3+3+2+2 |
| | a) GCS & its limitations. | |
| | b) Categories of functional outcome. | |
| | c) Central herniation signs. | |
| | d) Cerebral protection agents. | |
| 8. | Cranio-vertebral junction: | 3+4+3 |
| | a) Sagittal diagrams of the ligaments of cranio-vertebral junction. | |
| | b) Imaging techniques. | |
| | c) Schematic cross section of cervical spinal cord. | |
| 9. | CNS infections: | 3+3+4 |
| | a) Spinal epidural abscess: source & organisms. | |
| | b) Cerebral abscess in congenital cyanotic heart disease. | |
| | c) MRI findings in brain abscess. | |
| 10. | Surface anatomy of: | 3+2+3+2 |
| | a) Pterion. | |
| | b) Sylvian fissure. | |
| | c) Motor cortex. | |
| | d) Transverse sinus. | |
