

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.
 - a) Respiratory patterns in coma. 4+3+3
 - 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.

P.T.O.

NEURO SURGERY (DIRECT 6 YEARS COURSE) PART-I**PAPER-II**

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.
