

NEUROSURGERY

PAPER-III

Time: 3 hours
Max. Marks:100

NS 2/J/19/21/III

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. Refractory epilepsy: 3+3+4
 - a) Definition.
 - b) Pre-surgical evaluation.
 - c) Surgically remediable lesional epilepsy syndromes.
2. Intra-operative imaging: 3+3+4
 - a) Neuro-navigation.
 - b) Intra-operative ultrasound.
 - c) Intra-operative MRI.
3. Lymphocytic hypophysitis: 2+2+3+3
 - a) Diagnosis.
 - b) Differential diagnosis.
 - c) Histopathology.
 - d) Management.
4. Dural arteriovenous malformations: 3+3+4
 - a) Pathophysiology.
 - b) Natural history.
 - c) Management.
5. Regarding stereotaxy: 4+3+3
 - a) Principles and techniques.
 - b) Stereotactic Biopsy.
 - c) Gamma Knife Radiosurgery.
6. Regarding chronic pain: 4+3+3
 - a) Gate control and neuromatrix theories of pain.
 - b) Diagnostic criteria.
 - c) Grading of pain.

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| 7. | Recent advances in: | |
| | a) Mapping of eloquent cortex. | 4+3+3 |
| | b) Fluorescence guided resection. | |
| | c) Awake craniotomy. | |
| 8. | In the diagnosis of intracranial aneurysms, discuss the role of: | 3+3+4 |
| | a) Computed Tomography angiography (CTA). | |
| | b) Magnetic resonance angiography (MRA). | |
| | c) Intra-arterial digital subtraction angiography (IADSA). | |
| 9. | a) Management of fungal infections of the brain. | 3+3+4 |
| | b) Sources of brain abscess. | |
| | c) Pathology of TBM. | |
| 10. | Osteoporotic wedge compression fractures: | 3+3+4 |
| | a) Differential diagnosis. | |
| | b) Radiological diagnosis. | |
| | c) Recent advances in medical management. | |
