

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: 4+3+3
a) Mapping of eloquent cortex.
b) Fluorescence guided resection.
c) Awake craniotomy.
8. In the diagnosis of intracranial aneurysms, discuss the 3+3+4
role of:
a) Computed Tomography angiography (CTA).
b) Magnetic resonance angiography (MRA).
c) Intra-arterial digital subtraction angiography (IADSA).
9. 3+3+4
a) Management of fungal infections of the brain.
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.
