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## **NEUROSURGERY**

PAPER-III

Time: 3 hours NS 2/J/19/21/III

Max. Marks:100

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

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

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