

NEURO SURGERY**PAPER-III**Time: 3 hours
Max. Marks:100

NS2/D/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. a) Diagnosis and medical management of trigeminal neuralgia. 5+5
b) Percutaneous surgical procedures for trigeminal neuralgia.
2. Brain abscess: 3+3+4
a) Pathogenesis.
b) Etiological agents.
c) Histopathological stages.
3. a) Axonal regeneration. 4+6
b) Neurotization in Brachial plexus injuries.
4. a) Syndrome of the trephined. 4+6
b) Cranioplasty – options on materials.
5. a) Image guided robotic radiosurgery. 5+5
b) Radiosurgery for benign intracranial lesions.
6. a) Concept of Diffusion Tensor Imaging (DTI). 5+5
b) Application of DTI in Neurosurgery.
7. Surgical options for management of epilepsy. 10
8. a) Artificial disc. 5+5
b) Intraoperative fluorescence as aid in micro neurosurgery.
9. a) Therapeutic embolization. 5+5
b) Flow diverters.
10. a) Brainstem Auditory Evoked Response. 5+5
b) Optical Coherence Tomography.
