

NEUROSURGERY
PAPER-III

NS/J/18/21/III

Time: 3 hours
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. CNS tuberculosis: 4+2+2+2
 - a) Various manifestations
 - b) Imaging findings on MRI
 - c) Differential diagnosis
 - d) Treatment outline
2. Fungal Infections of CNS: 5+3+2
 - a) Various manifestations
 - b) Imaging findings on MRI with MRS
 - c) Treatment
3. Ventilator associated pneumonia: 2+3+5
 - a) Definition
 - b) Common bacteriological agents
 - c) Prevention
4. Shunt infections: 5+5
 - a) Types & risk factors
 - b) Prevention during surgery
5. Robotics in Neurosurgery: 4+4+2
 - a) Role in Neurosurgery
 - b) Available options
 - c) Limitations
6. Consent taking in Neurosurgery 3+5+2
 - a) What is informed consent?
 - b) Its ingredients.
 - c) Who can sign it?
7. Stereotaxy: 3+2+3+2
 - a) Principles
 - b) Types of frame
 - c) Indications in functional Neurosurgery
 - d) Limitations

P.T.O.

8. Deep Brain Stimulations: 3+4+3
a) Principles
b) Applications
c) Results in Parkinsonism
9. Trigeminal neuralgia: 3+3+2+2
a) Clinical presentations
b) Causes of secondary neuralgia
c) Imaging modalities
d) Role of Gamma knife
10. Role of stem cells in neurological surgery: 4+4+2
a) Principles
b) Clinical applications
c) Ethical considerations
