

FINAL EXAM
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

NEUROSURGERY

PAPER-III

NS/J/18/21/III

Time: 3 hours
Max. Marks:100IMPORTANT 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 | |

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|-----|---|---------|
| 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 | |

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