

NEUROSURGERY

PAPER – III

NS/J/17/21/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. a) What is deep brain stimulation (DBS)? 2+3+5
b) Indications/contraindications of DBS.
c) Surgical technique.
2. a) Indications of minimally invasive cranial surgery. 4+6
b) Its advantages and disadvantages.
3. Topical haemostatic agents: 3+4+3
a) Classification
b) Basic principle and mechanism of action
c) Indications
4. Etiopathogenesis, pathology and treatment of brain abscess. 3+3+4
5. Define neural prosthesis. Mention the types, technique of applications and name the clinically available prosthesis and their future prospects. 2+2+2+2+2
6. a) Epidemiology of spontaneous and post operative discitis. 2+2+3+3
b) Clinical features of discitis,
c) Investigations, and
d) Treatment.
7. Utility of the following in Neurosurgery: 5+5
a) Magnetoencephalography
b) Neuronavigation
8. Compare and contrast: 5+5
a) Coiling Vs clipping in cerebral aneurysms
b) Kyphoplasty Vs Vertebroplasty

P.T.O.

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9. Role of radio surgery in: 3+3+4
a) Malignant tumors of brain
b) Benign tumors of brain
c) Intracranial vascular malformations
10. a) Role of urokinase in intracerebral hemorrhage. 5+5
b) Impact of aspirin and anticoagulants usage on outcomes after aneurysmal subarachnoid hemorrhage.
