

**NEUROSURGERY**

PAPER – I

NS/D/16/21/I

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. What are the methods of recording I.C.P.? Explain with suitable examples, the advantages & disadvantages of each in a tabulated form. 2+8
2. Draw and explain anatomy of limbic system. Explain briefly its clinical significance. 5+5
3. a) WHO classification of brain tumour. 5+5  
b) High grade gliomas: Its radiological and pathological differentiation.
4. a) Types of spinal cord injury & their mechanism. 5+5  
b) SCIWORA.
5. a) What are the indications of putting a patient in ICU on ventilators? 4+(3+3)  
b) Various modes of mechanical ventilation and methods for removing ventilator.
6. Role in Neurosurgery practice of: 4+3+3  
a) Diphenhydantoin  
b) Cabergoline  
c) Acetazolamide
7. a) Classify tumours of anterior 3<sup>rd</sup> ventricle region. 4+6  
b) How will you differentiate between adult and childhood craniopharyngioma?
8. a) Prognostic factors for long-term survival of glioma. 5+5  
b) Various aids that help in complete removal of glioma used intraoperatively.
9. a) How to monitor blood gases in ICU patients. 4+2+4  
b) Explain with suitable example.  
c) Enumerate various conditions that derange ABG in Neurosurgery patients and its clinical impact.
10. How to test sample size for a research project? How can one derive a value of statistical significance in a research project? 5+5

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