

**NEURO SURGERY**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

NS2/D/19/21/I

**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 20-year-old patient is admitted in the Emergency Department with severe traumatic brain injury and associated femur fracture on one side. Discuss the:  
a) Evaluation, and  
b) Management protocol. 5+5
2. a) Optimal positioning for common approaches in cranial surgery.  
b) Scalp flaps for various approaches. 5+5
3. a) Glasgow Coma Scale and its paediatric equivalent.  
b) Cerebral perfusion pressure as a guide to management of intracranial pressure. 5+5
4. a) Enumerate common sellar and suprasellar lesions and their symptomatology.  
b) Anatomical basis of visual disturbances in such lesions. 5+5
5. a) Pupillary responses that help localizing lesions at different levels of brain in a comatose patient.  
b) Ondine's curse. 7+3
6. a) What are Phakomatoses?  
b) Enumerate the common neurocutaneous markers.  
c) Neurosurgical implications of neurofibromatosis. 2+4+4
7. a) Spontaneous CSF rhinorrhea.  
b) Idiopathic intracranial hypertension. 5+5
8. a) Venous drainage of the brain.  
b) Management of cerebral venous thrombosis. 5+5
9. Methods of achieving haemostasis in Neurosurgery. 10
10. a) Ethical issues in conducting a study.  
b) Overview of data analysis. 5+5

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