

**NEUROSURGERY (DIRECT 6 YEARS) PART -I****PAPER-II**Time: 3 hours  
Max. Marks:100

NS 1/J/19/22/II

**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. Draw a labelled diagram of the visual pathway and give an account of various visual field defects. 5+5
2. Mesial temporal anatomy and its surgical significance. 5+5
3. a) Cerebrospinal fluid. 5+5  
b) Cerebral perfusion pressure.
4. a) Embryological anatomy of cranio-vertebral junction (CVJ). 5+5  
b) Classification of CVJ anomalies.
5. a) Nerve fibre types and functions. 5+5  
b) Neurotrophic factors.
6. Draw a labelled diagram of the following: 5+5  
a) Anatomy of the cavernous sinus.  
b) Spinal cord blood supply.
7. a) Anatomy and physiology of the intervertebral disc. 5+5  
b) Clinical feature and presentation of lumbar disc prolapse.
8. a) Anatomy of the blood-brain barrier. 5+5  
b) Cerebral autoregulation.
9. a) Intracranial pressure. 5+5  
b) Papilledema.
10. Draw a diagram of the ventricular system and write a short note on entry points to the ventricular system. 5+5

\*\*\*\*\*