

NEUROSURGERY

PAPER – I

NS/J/15/21/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.	Sodium valproate: clinical uses and side effects.	7+3
2.	Surgical anatomy of third cranial nerve.	10
3.	Autoregulation of cerebral blood flow.	10
4.	Decompressive craniotomy.	10
5.	Differences in clinical and radiological features of an extramedullary and intramedullary spinal cord tumor.	10
6.	a) Median. b) Regression analysis. c) Standard deviation.	3+3+4
7.	a) Deep venous drainage of the brain. b) Arterial supply of spinal cord.	6+4
8.	a) Mechanism of action of steroids in cerebral edema. b) Side effects of diphenylhydantoin sodium.	4+6
9.	Operative technique of: a) Endoscopic third ventriculostomy. b) Fixation of C ₁ and C ₂ vertebrae.	5+5
10.	a) Prevention of head injury. b) Role of diffusion weighted images in brain MRI.	4+6
