

**NEUROSURGERY (PART-II/FINAL)**

PAPER – I

NS/J/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. CSF flow in brain and spinal cord with: 4+3+3
  - a) Suitable diagram
  - b) Physiology of its production and absorption.
  - c) Methods to decrease CSF production.
2. Illustrate venous drainage of brain under the following heads with suitable diagram: 3+3+4
  - a) Superficial venous drainage system.
  - b) Deep venous drainage system.
  - c) Effect of blockage of cortical drainage system.
3.
  - a) What is ICP and how is it regulated? 5+5
  - b) Various factors affecting the ICP.
4.
  - a) Control of urinary bladder function. 5+5
  - b) Impact of sectioning on bladder function at various levels.
5. Glasgow Coma Score (GCS) under following heads: 3+5+2
  - a) GCS
  - b) Its limitations
  - c) Advantages over other scores.
6. Pituitary adenoma: Classification, clinical presentation and various staining techniques of tissues for its diagnosis 3+5+2
7. Various types of spinal cord injuries under following head: 3+4+3
  - a) Etiology.
  - b) Prognostic factors.
  - c) Non-surgical treatment options.
8. What is randomization, methods of randomization and its disadvantages in a research methodology? 3+4+3
9. Physiology of vision under the following heads: 3+3+4
  - a) Optic pathway.
  - b) Vascular supply at various levels
  - c) Impact of lesion at various levels.
10. Function of frontal lobes covering various regions with a suitable diagram. 10

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