

NEUROLOGY

PAPER-I

NEURO/J/18/23/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 question to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

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| 1. Autonomic nervous system  | 10  |
| 2. Trigemino-vascular system and its role in migraine.   | 10  |
| 3. Cerebral autoregulation   | 10  |
| 4. Alpha-gamma loop in the control of muscle tone  | 10  |
| 5. Blood supply of thalamus and the vascular syndromes associated with it.   | 10  |
| 6. The gait cycle  | 10  |
| 7. a) Anatomy of cerebral sino-venous circulation.<br>b) Clinical and radiological features of cerebral deep venous occlusion. | 5+5 |
| 8. CSF flow dynamics   | 10  |
| 9. "Student t test" and "Chi-square test"  | 10  |
| 10. Basal ganglia and their connections.   | 10  |

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