

**PHYSICAL MEDICINE AND REHABILITATION**

PAPER - IV

PMR/D/13/35/IV

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.  | a) Muscle tone<br>b) Acute flaccid paralysis  | 5+5   |
| 2.  | a) Basic features of normal Calcium metabolism<br>b) Differences between Osteomalacia, Osteoporosis and Osteoarthritis                            | 4+6   |
| 3.  | a) Basic features of normal nerve conduction<br>b) Myoneural - junction   | 5+5   |
| 4.  | a) Common causes of Nerve injuries<br>b) Classification of Peripheral Nerve Injuries<br>c) Wallerian degeneration                                 | 3+4+3 |
| 5.  | a) Stem cells<br>b) Botulinum toxin   | 6+4   |
| 6.  | a) MRC grading of muscle strength<br>b) Bronchopulmonary segments   | 4+6   |
| 7.  | Describe the pharmacological actions and role of following in PMR practice:<br>a) NSAIDs<br>b) Baclofen<br>c) Diacerein                           | 4+3+3 |
| 8.  | a) Platelet-rich Plasma injections in PMR practice<br>b) Hyperbaric Oxygen therapy  | 5+5   |
| 9.  | a) Autonomic hyperreflexia<br>b) Deep Vein Thrombosis   | 5+5   |
| 10. | a) Discuss the physiology of balance and co-ordination.<br>b) What are tremors? Discuss its causes. What are differentiating features of tremors? | 5+5   |

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