

**PHYSICAL MEDICINE & REHABILITATION**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

PMR/J/19/35/I

**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:**

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|---|---------|
| 1. What are Primitive Reflexes? Discuss their significance in neurological disorders in children and adults.                          | 4+6     |
| 2. Elaborate on applied anatomy and biomechanics of Scapular Winging.   | 5+5     |
| 3. Describe the various types of knee joint options available for prosthetic limb and their indications.                              | 10      |
| 4. What are closed and open kinetic chain movements? Explain their importance in rehabilitation with at least two examples of each.   | (2+2)+6 |
| 5. What is ICF? Explain the ICF model and its components.   | 3+(3+4) |
| 6. Describe the common EMG recordings and sounds observed in normal and disease conditions.   | 10      |
| 7. Discuss about the Pharmacological agents used in patients with Traumatic Brain Injury for management of consciousness and arousal. | 10      |
| 8. Describe the phases of Spinal Shock seen after spinal cord injury.   | 10      |
| 9. Draw a labelled cross sectional diagram of Carpal Tunnel. Describe the findings as seen in ultrasound in a patient with CTS.       | 6+4     |
| 10. Explain the techniques of skin closure of a surgical skin incision.   | 10      |

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