

**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:**

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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