

**PHYSICAL MEDICINE & REHABILITATION****PAPER-IV**

Time: 3 Hours  
Max. Marks: 100

PMR/D/19/35/IV

**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. Role of robotics in ambulation training in patients with spinal cord injury. 10
2. Role of biologics in rheumatoid arthritis. 10
3. Write differences between Persons with Disability Act, 1995 and Revised Persons with Disability Act, 2016. 10
4. Microprocessor controlled prosthetic knee joints for trans-femoral amputees. 10
5. What are environmental control devices? How can they help a person with C5 level spinal cord injured? 5+5
6. What is Hyperbaric oxygen therapy? What are its clinical uses in the light of the recent literature? 5+5
7. Stem cells - sources and application in rehabilitation medicine. 10
8. What is Baclofen pump? Write its clinical usage, advantages and disadvantages. 3+4+3
9. What is Platelet Rich Plasma? Write its clinical importance. 5+5
10. Comparative analysis of institutional based and community based rehabilitation. 10

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