

PHYSICAL MEDICINE & REHABILITATION

PAPER-I

Time: 3 Hours
Max. Marks: 100

PMR/D/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. How is Brachial plexus formed, draw a labeled diagram also. Write the presentation at common levels of injury to brachial plexus. 5+5
2. What are the indications and contraindications of heat therapy? What is the mode of action of action of Ultrasonography and Short Wave Diathermy? (3+3)+(2+2)
3. Biomechanics of knee joint. 10
4. Bronchopulmonary segments and principles of postural drainage of lungs. 10
5. What is HLA B27? What is its clinical significance? 5+5
6. Discuss determinants of human gait. How do they help optimize energy while walking? 6+4
7. What is Motor Unit Action Potential? What are the changes observed in nerve injury? 5+5
8. ASIA impairment scale. 10
9. Write the X-ray findings in different stages of ankylosing spondylitis. 10
10. Calcium and Vitamin D metabolism. 5+5
