

PAPER – I

PMR/D/14/35/I

8+2

Time : 3 hours Max. Marks : 100

Important instructions:

- · Attempt all questions in order.
- Each question carries 10 marks.
- Read the guestion 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.
- 1. Draw a well labeled diagram of the cross-section of the spinal 10 cord at T2 level. Show the lamellar organization of the neurons and describe it. 5+5 2. Discuss the role of parathyroid hormone and calcitonin in calcium metabolism. 7 + 33. Define spasticity and describe its causes. How does spasticity impact various rehabilitation processes, used in cerebral palsy? 4+3+3 4. What is the importance of rheumatoid factor, CRP and Anti-CCP in the diagnosis of Rheumatoid Arthritis? 10 5. What is the pathophysiology of autonomic dysreflexia? 5+5 6. What are the determinants of gait? How do they help in optimizing energy consumption in the gait cycle?

7. Discuss the prehension activities of the hand. What is the functional position of the hand?

8. Describe the ilio-tibial tract. Write a note on tensor fascia lata. 5+5

9. Give a brief account of lung volumes.

10. What are the physiological effects of heat?
