PHYSICAL MEDICINE AND REHABILITATION PAPER-I

Time: 3 hours PMR/D/20/35/I

Max. Marks:100

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- Attempt all questions in order.
- Each guestion 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 the objectives and principles of Therapeutic exercises? Mention the differences between isometric, isotonic and eccentric types of muscular contractions.	5+5
2.	a) Vitamin-B₁₂.b) Botulinum toxin.	5+5
3.	a) Shoulder stabilizers.b) Diagnosis and management of impingement syndrome.	5+(3+2)
4.	a) Gate control theory of pain.b) Transcutaneous Electrical Nerve Stimulation(TENS).	5+5
5.	Describe speech areas of brain. Enumerate various types of presentations of speech disorders of brain injury based on these areas.	4+6
6.	a) Materials used for calibration of prosthesis.b) Biomechanics & indications of halo vest orthosis.	5+3+2
7.	What are the nutritional requirements of a patient with spinal cord injury of 3 months duration at the level of D11 under active gait training?	10
8.	a) Draw a labeled diagram of lumbar plexus.b) Investigation of unilateral foot drop & its management.	5+(2+3)
9.	Describe biomechanics of the ankle joint complex and discuss the bony anatomy involved in motion of the foot and ankle.	5+5
10.	a) Brain stem Auditory Evoked Response (BAER) test.b) What are latency studies in compressive neuropathy?	5+5
