

PG Degree Regular/Supplementary Examinations in Physical Medicine & Rehabilitation (MD) January 2025

Paper II - Physical Medicine Including Physical Modalities, Biomedical Instrumentation and Prosthetic and Orthotics

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: **(20)**

1. Discuss the biomechanical principles and materials in the design and fabrication of orthotic devices for the upper limb. Describe the various wrist hand orthosis prescribed for a tetraplegic hand.

Short essays: **(8x10=80)**

2. Klumpke's palsy
3. Tethered Cord Syndrome
4. Gate control theory of pain
5. Modified Rankin scale
6. Principle of therapeutic ultrasound (UST) application
7. Diabetic footwear
8. Syme's amputation
9. Wheelchair prescription for bilateral transfemoral amputee
