

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2074

M.D. DEGREE EXAMINATION

BRANCH XIX – PHYSICAL MEDICINE AND REHABILITATION

**PAPER IV – PHYSICAL MEDICINE AND REHABILITATION – III
(RECENT ADVANCES IN REHABILITATION AND
COMMUNITY-BASED REHABILITATION)**

Q.P. Code: 202074

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the Community Reintegration following mild to moderate traumatic and non-traumatic brain injury.
2. Outline the various rehabilitation measures for a 70-year-old gentleman with Parkinson's disease. Discuss the use of advanced devices, technologies and drugs for a good outcome.

II. Write notes on:

(10 x 7 = 70)

1. Use of Robotic devices in gait training and balance.
2. Advances in orthosis for Footdrop.
3. Different uses of Botulinum toxin.
4. Advances in wound healing.
5. Upper limb and cognitive training using Virtual Reality and Virtual Augmentation.
6. Vertebroplasty on the osteoporotic spinal vertebra.
7. Low-vision assistive devices.
8. Principles and applications of ICF.
9. Sheltered Workshop.
10. Back School for prevention of back pain. A brief note on the use of Sensors.
