

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2473

**BACHELOR IN PROSTHETICS AND ORTHOTICS
THIRD YEAR (Regulation 2017-2018 onwards)
PAPER III – ASSISTIVE TECHNOLOGY
Q.P. Code: 802473**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Distinguish between Manual Wheelchair and Powered Wheelchair with special reference to prescription.
2. Describe Biomechanics of Developmental Aids.
3. Discuss maximum use of Appropriate Technology while making Developmental Aids.

II. Write notes on:

(8 x 5 = 40)

1. Crutches and its types.
2. Low-floor Mobility devices.
3. Prone board.
4. Types of Seat Cushion and functions.
5. Biomechanics of Molded seats.
6. Customized wheelchair.
7. Motorized tricycle.
8. Parallel bar in Rehabilitation.

III. Short answers on:

(10 x 3 = 30)

1. Wheelchair modification.
2. Bed to Wheelchair Transfer techniques.
3. Axilla Crutch Gait.
4. Gutter Crutch.
5. Educational Toys.
6. Normal Developmental Milestone.
7. Special Chair with tray.
8. Tripod.
9. Robotics Arms.
10. Self-help device for Activities of Daily Living.
