

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

[AHS 0423]

APRIL 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. Various kinds of Developmental Aids and its Biomechanics.
2. Tricycle and its types.
3. Pressure relief cushion and its types and Fabrication procedure of pressure relief cushion.

II. Write notes on:

(8 x 5 = 40)

1. Different types of canes.
2. Materials used for molded seat.
3. Mobility skills for wheelchair user.
4. Fabrication and Installation of Parallel Bar at Home.
5. Cantilever frame.
6. Different Types of walking frame.
7. Four point gait.
8. Assistive devices for spinal cord injury patient.

III. Short answers on:

(10 x 3 = 30)

1. Assistive technology and Assistive technology device.
2. Assessment of elbow crutch user.
3. Lapboard walker.
4. Standing frame.
5. Strapping in a wheelchair user.
6. Safety features in a wheelchair.
7. Importance of wheelchair user instructions.
8. Robotic Arms.
9. Fabrication of seat box.
10. Joystick.
