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

[AHS 0423]

APRIL 2023

Sub. Code: 2476

BACHELOR IN PROSTHETICS AND ORTHOTICS THIRD YEAR (Regulation 2017-2018 onwards) PAPER VI – ORTHOTIC SCIENCE - III Q.P. Code: 802476

Time: Three hours	Answer ALL Questions	Maximum: 100 Marks

I. Elaborate on:

- 1. Describe in detail the types of Hand Grasp and Prehension.
- 2. Describe briefly about Wrist Driven Flexor Hinge Splint.
- 3. Write down the different Orthotic Management of Claw Hand Deformity.

II. Write notes on:

- 1. General principles of Upper extremity splinting.
- 2. Indication, Functions and Bio-mechanics of Clavicular Orthosis.
- 3. What is Spring swivel thumb?
- 4. Flexion assist Metacarpophalangeal (MCP) dynamic splint.
- 5. How to make T bar for a feeder?
- 6. Assistive device button hook.
- 7. What is Wilmer Shoulder Orthosis?
- 8. Principle of Orthotic Management of Upper limb fracture.

III. Short answers on:

- 1. Dynamic wrist hand Orthosis for Median Nerve injury.
- 2. Swan neck deformity and its Orthotic management.
- 3. Hypothenar bar.
- 4. Opponens bar.
- 5. Tennis elbow splint.
- 6. Functional Electrical Stimulation in Upper limb Orthosis.
- 7. Prop.
- 8. Thumb post.
- 9. Passive prehension Orthosis.
- 10. Thumb Spica.

 $(10 \ge 3 = 30)$

 $(8 \times 5 = 40)$

 $(3 \times 10 = 30)$