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

[AHS 0423] APRIL 2023 Sub. Code: 2458

BACHELOR IN PROSTHETICS AND ORTHOTICS FIRST YEAR (Regulation 2017-2018 onwards) PAPER VIII – ORTHOTICS SCIENCE I

Q. P. Code: 802458

Time: Three Hours Answer All questions Maximum: 100 Marks

I. Elaborate on : (3X10=30)

- 1. Explain in detail about Tracing, Measurement and Layout for Metallic Ankle Foot Orthosis.
- 2. Give a brief classification of various types of Foot Orthosis and describe those in details.
- 3. Explain the checkout procedure and prescription criteria of conventional Ankle Foot orthosis.

II. Write Notes on: (8X5=40)

- 1. Orthotic management of Anaesthetic Foot.
- 2. Explain various fabricating materials used in lower extremity orthotics.
- 3. Explain Supra Malleolar Orthosis and its prescription criteria.
- 4. Explain functions, advantages and disadvantages of Internal and External shoe modification.
- 5. What are the types of limb length discrepancy and how you will measure it?
- 6. Explain functions and indications of Fracture Bracing.
- 7. Assist category Ankle joint.
- 8. Features of CTEV shoe.

III. Short Answers on:

(10X3=30)

- 1. Reverse Thomas heel.
- 2. Explain 3-point force system and how will it correct the ankle foot deformity.
- 3. Write Indications and contraindications of limited motion ankle joint.
- 4. Charcot foot.
- 5. Define Pes cavus and pes planus.
- 6. Define Orthosis, Orthotist and Orthotics as per ISO.
- 7. Draw neat sketch of Solid and Split stirrup.
- 8. MT Pad and MT bar.
- 9. Trimlines of UCBL shoe insert.
- 10. Medial T-Strap.