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

[AHS 1123] NOVEMBER 2023 Sub. Code: 2453

BACHELOR IN PROSTHETICS & ORTHOTICS FIRST YEAR (Regulation 2017-2018 onwards) PAPER III – WORKSHOP TECHNOLOGY AND MATERIAL SCIENCE O.P. Code: 802453

Time: Three Hours Answer All questions Maximum: 100 Marks

I. Elaborate on : (3X10=30)

- 1. Different types of hammers and its use with neat sketch.
- 2. Classification of plastic material and its properties.
- 3. Any five Special tools used in Prosthetics and Orthotics.

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

- 1. Heat treatment of metals.
- 2. Wood and its types.
- 3. Leather and its properties.
- 4. Wood Working tools
- 5. Types of rivet and riveting failure.
- 6. Cutting tools and its usage.
- 7. Viscoelastic behavior of plastic.
- 8. Abrasive machine.

III. Short Answers on:

(10X3=30)

- 1. What is Vernier caliper? Mention its use.
- 2. What is vacuum pump? Mention its use.
- 3. Write down the use of compressor in Prosthetics.
- 4. What is Vice? Write different types of vices.
- 5. Write about Jig bending stirrup.
- 6. Define Malleability.
- 7. What do you know about HDPE and its use in Prosthetics?
- 8. Dust Collection Equipment.
- 9. Differentiate between polymer and monomer.
- 10. What is sintering?
