

[AHS 0321]

MARCH 2021

Sub. Code: 2453

(AUGUST 2020 EXAM SESSION)

BACHELOR IN PROSTHETICS AND ORTHOTICS**FIRST YEAR (Regulation 2017-2018)****PAPER III – WORKSHOP TECHNOLOGY AND MATERIAL SCIENCE*****Q.P. Code : 802453*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Operation of Lathe Machine and its Types.
2. Types of Wood and Tools used for wood working.
3. Heat Treatment of Metal.

II. Write notes on:**(8 x 5 = 40)**

1. Types of Measuring Tools.
2. Boring and Tapping operation using drilling machine.
3. Properties of Non - Ferrous Metals.
4. Properties of Polypropylene.
5. Polyurethane Foam uses in P & O.
6. Welding & Brazing process.
7. Operation of Electric Oven.
8. Types of Resins used in P & O.

III. Short answers on:**(10 x 3 = 30)**

1. Different types of plastics used in P & O.
2. What do you mean by creep?
3. Types of Vice used in P & O workshop.
4. Properties of Aluminum.
5. Defects found in wood
6. Merits and Demerits of foam.
7. Name few operations done using Milling machine.
8. What is soldering?
9. Thermoforming Plastics.
10. Power Hacksaw
