2. Write short note on Hack saw and its use.

- 3. List the composite materials used in prosthetics and its advantage.
- 4. Explain about the vice which is useful for orthotics work.
- 5. Explain about any special tool used in prosthetics.
- 6. Define toughness.
- 7. Write short note on polyester.
- 8. Define Lamination and it s process.
- 9. List the metal and alloys used in orthotics.
- 10. What is polyurethane rigid foam and its use in prosthetics?

1. Why heat treatment of metal is needed and define annealing?

- 1. Surface coating of metals.
- 2. Types of joints formed by wood.
- 3. Polymer and polymerization.
- 4. Silicon and its properties with usage.
- 5. Soldering and its procedure.
- 6. Compressors and its working principle.
- 7. Sanding machine.

III. Short answers on:

8. Mechanical working of metals.

# I. Elaborate on:

[LH 0815]

- 1. Leather and its types with properties and usage.
- 2. Lathe machine with sketch and parts with operating principles.
- 3. Different types of files with diagram and usage.

### **II.** Write notes on:

### **Time: Three hours** Maximum : 100 Marks

## FIRST YEAR **PAPER III – MATERIAL AND WORKSHOP TECHNOLOGY**

Q.P. Code: 802403

**Answer all Questions** 

 $(8 \times 5 = 40)$ 

 $(3 \times 10 = 30)$ 

#### $(10 \times 3 = 30)$

**BACHELOR IN PROSTHETICS & ORTHOTICS (BPO)** 

AUGUST 2015

Sub. Code: 2403

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