

B.Sc. PROSTHETICS & ORTHOTICS
FIRST YEAR
PAPER III – MATERIAL AND WORKSHOP TECHNOLOGY

Q.P. Code: 802403

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Operation of Drilling Machine and its uses.
2. Properties and uses of Polypropylene.
3. Different types of cutting tools used in P & O application.

II. Write notes on:

(8 x 5 = 40)

1. Operation of grinding machine.
2. Various stages involved in annealing of metals.
3. Thermosetting plastic and its P & O application.
4. Define polymer and process of polymerization.
5. Explain in detail about metal welding process.
6. Environmental Hazards of using foams.
7. Process of surface coating of metals.
8. Types of hand files used in P & O workshop.

III. Short answers on:

(10 x 3 = 30)

1. Define stress and strain.
2. Difference between thermoplastic and thermosetting plastics.
3. Properties of steel.
4. What is Fiber Reinforced Plastic?
5. Uses of soft foams in P & O application.
6. List few power tools used in P & O workshop.
7. What are the uses of silicon in P & O application?
8. Uses of dust collector.
9. Uses of resins in P & O application.
10. Different types of materials used to make sockets.