

[LJ 0816]

AUGUST 2016

Sub. Code :2455

B.Sc. PROSTHETICS AND ORTHOTICS
(New Syllabus 2013-2014)

THIRD YEAR

PAPER V – ORTHOTICS SCIENCE – III

Q.P. Code: 802455

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. What are slings? Explain different types of sling with their prescription criteria.
2. Write biomechanical principles of hand splinting.
3. Describe Objective, fabrication and positioning of balance forearm orthosis.

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

1. Arches of Hand.
2. Anti deformity position.
3. Orthotic management for arthritic hand.
4. Deformities in burn.
5. Different types of pinch.
6. Different types of upper extremity orthosis with examples.
7. Indication and positioning of Airplane orthosis.
8. Volar wrist flexion control orthosis.

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

1. Dynamic wrist hand orthosis for median nerve injury.
2. Swan neck deformity and its orthotic management.
3. Hypothenar bar.
4. Opponens bar.
5. Tennis elbow splint.
6. Claw hand.
7. Prop.
8. Thumb post.
9. Passive prehension orthosis.
10. Thumb Spica.
