

[LH 0815]

AUGUST 2015

Sub. Code: 2434

BACHELOR IN PROSTHETICS & ORTHOTICS (BPO)

THIRD YEAR

PAPER IV – PROSTHETICS SCIENCE - III

Q.P. Code: 802434

Time: Three hours

Maximum : 100 Marks

Answer all Questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain about Mechanical Elbow Joint.
2. Bionic Arm.
3. Prosthetic Management for Elbow Disarticulation.

II. Write notes on:

(8 x 5 = 40)

1. Types of wrist units.
2. Advantages of Mechanical Hand.
3. Prosthetic Management for Transcarpal Amputation.
4. Types of Terminal Device.
5. Shoulder Disarticulation Suspension System.
6. Trans Radial Prosthetic Components.
7. Levels of Amputation.
8. Trans Humeral Socket Biomechanics.

III. Short answers on:

(10 x 3 = 30)

1. Shoulder disarticulation Socket Trimlines.
2. Hinges for Elbow Disarticulation Prosthesis.
3. Control Cable System.
4. Wrist Disarticulation.
5. Types of Hinges.
6. Cosmetic Finger Prosthesis.
7. Trans Humeral Prosthesis Socket Suspension.
8. Material used for making Sockets.
9. Trans Humeral Prescription criteria.
10. Trans Radial Measurement Procedures.
