

**BACHELOR IN PROSTHETICS AND ORTHOTICS**

**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. Briefly explain about upper limb myoelectric prosthesis.
2. Transhumeral harnessing system.
3. Explain upper limb prosthesis Terminal devices.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Describe congenital deficiency.
2. Explain about socket design of partial hand prosthesis.
3. Explain Bilateral below elbow harness system.
4. Explain about prosthetic options for upper limb amputees.
5. Explain about elbow hinges.
6. Types of wrist units.
7. Explain about split socket prosthesis.
8. Explain transradial TRAC socket.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define figure of 9 harness?
2. What is Inverted Y strap?
3. Describe about activity specific prosthesis.
4. Indication and contra indication for myoelectric prosthesis.
5. What is body powered and externally powered prosthesis?
6. Trim lines of Trans radial socket.
7. Nudge control unit.
8. Define krukenberg amputation.
9. What is Muenster socket?
10. Difference between internal and external elbow unit.