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: $(3 \times 10 = 30)$

1. Trans humeral prosthesis parts and briefly explains about functions of each part.

- 2. Explain about Prosthetics elbow joints and functions of each joint.
- 3. Functional shoulder disarticulation prosthesis and types of shoulder joints.

II. Write notes on: $(8 \times 5 = 40)$

- 1. What is heavy duty Trans radial harness system?
- 2. Explain about friction wrist units.
- 3. What is outside-locking hinges and inside –locking elbow units?
- 4. Explain about general concept of myoelectric prosthesis.
- 5. What is the Difference between hand and hook?
- 6. Check out procedure of Trans humeral prosthesis.
- 7. Explain about bio-feedback.
- 8. Write about Functional prosthesis for partial hand amputation.

III. Short answers on:

 $(10 \times 3 = 30)$

Sub. Code: 2434

- 1. What is grasp pattern?
- 2. Write the parts of the trans humeral prosthesis.
- 3. Describe about activity specific prosthesis.
- 4. Indication for external elbow unit.
- 5. What is voluntary opening and closing?
- 6. Write the Trim lines of Trans humeral socket.
- 7. Block diagram of myoelectric prosthesis.
- 8. What is the difference between internal and external elbow unit?
- 9. What is Nudge control unit?
- 10. Components of myoelectric prosthesis.
