

[LK 0217]

FEBRUARY 2017

Sub. Code :2416

**B.Sc. PROSTHETICS AND ORTHOTICS  
SECOND YEAR  
PAPER VI – PROSTHETICS SCIENCE – II**

*Q.P. Code: 802416*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain about function of four walls of quadrilateral socket.
2. How the stump/socket interface pressure changes during gait? Explain.
3. Differentiate between hydraulic and pneumatic knee joint.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Constant friction knee joint.
2. Prosthetic Clinic procedure.
3. Components of Hip disarticulation prosthesis.
4. Total contact socket.
5. Peg leg Prosthesis.
6. ISNY Socket.
7. Prosthetic gait deviation.
8. Cast taking procedure of AK amputee.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What do you mean by phantom limb?
2. What is the role of silicon liner?
3. How do you measure the length of prosthesis for bilateral amputee?
4. How you will manage if the AK amputee have flexion contracture?
5. Differentiate between static and dynamic alignment.
6. How you will manage for a bilateral hip disarticulation amputee?
7. Explain about a swing control knee joint.
8. What are the advantages of four bar knee joint?
9. Write about mechanism of suction socket.
10. What are the materials used in manufacturing Jaipur limb?

\*\*\*\*\*