

QP CODE: 107028

Reg. No:

**First Year Bachelor of Prosthetics and Orthotics Degree Regular
Examinations November 2025**

**Prosthetics Science - I
(2024 Scheme)**

Time: 3 Hours

Total Marks: 80

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(2x15=30)

1. Describe the casting and fabrication process of Syme's Prosthesis.
2. Describe different level of partial foot amputations. Also, explain its prosthetics management.

Short Essays

(7x5=35)

3. Biomechanical difference between SACH foot and Jaipur foot.
4. PTB Socket vs TSB Socket.
5. Static alignment of Transtibial prosthesis.
6. Check-out procedure of Syme's prosthesis.
7. Different materials used in Transtibial Prosthesis
8. Biomechanical challenges in partial foot prosthesis fitting.
9. Biomechanics of PTB-SCSP Socket.

Answer Briefly

(5x3=15)

10. Early knee flexion in gait deviation.
11. Gait deviation during mistance phase in transtibial Prosthesis.
12. Possible reasons for excessive knee flexion gait deviation.
13. Trimline of syme's prosthesis socket.
14. Energy storing foot.
