

QP CODE: 108028

Reg. No:

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

**Orthotics 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*
- *Simple calculator shall only be permitted*

Essays

(2x15=30)

1. Discuss the fabrication procedure (Assessment, Measurement, bony landmarks and casting procedure) of Charcot Restraint Orthotic Walker.
2. Discuss the fabrication procedure (Assessment, Measurement, bony landmarks and casting procedure) of University of California Biomechanical Laboratory Orthosis.

Short Essays

(7x5=35)

3. Discuss force system for T-Straps with free body diagram.
4. Discuss the orthotic management for calcaneal spur.
5. Discuss indication, measurement technique and functions of Medial Longitudinal Arch Support.
6. Discuss various kinds of plastic materials used in orthotics.
7. Discuss the various kind of deformities in CTEV and its orthotic management.
8. Discuss the indication and differences between Solid Ankle Foot Orthosis and Articulated Ankle Foot Orthosis.
9. Discuss indication and measurement techniques for leaf spring Ankle Foot Orthosis

Answer briefly

(5x3=15)

10. Discuss Indications and functions of excavated heel.
11. Discuss Indication and functions of meta-tarsal pad.
12. Write indication and functions of medial and lateral raise.
13. Write the definition of orthosis, orthotics and orthotist.
14. Write the indications and functions of meta-tarsal bar

CORRECTION / NO-CORRECTION FILE
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QPCODE: 108028

Dated: 26-11-2025

Question No. 1

Replaced with "Briefly explain types of Orthotic ankle joints."

Question No. 14

Replaced with "Write down the orthotic management of Congenital Vertical Talus (CVT)."

Extra time of 10 minutes allowed.

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS