

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0423]

APRIL 2023

Sub. Code: 2466

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018 onwards)
PAPER VI – PROSTHETICS SCIENCE - II
*Q.P. Code: 802466***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Fabrication procedure for Ischial Containment Socket.
2. Compare Hydraulic Knee Joint and Pneumatic Knee Joint.
3. Alignment Procedure for Through Knee Prosthesis.

II. Write notes on:

(8 x 5 = 40)

1. Explain about Trans Femoral Prosthesis Gait Deviation.
2. Stance Phase and Swing phase control knee joint.
3. Casting procedure for Ischial containment socket.
4. Alignment procedure for Trans femoral Prosthesis with Quadrilateral Socket.
5. Assessment Procedure for through Knee Amputation.
6. Types of Suspension system for Trans Femoral Prosthesis.
7. Explain about Endoskeleton and Exoskeletal Prosthesis.
8. Bench Alignment for Trans Femoral Prosthesis.

III. Short answers on:

(10 x 3 = 30)

1. Various types of suspension system of Trans Femoral Prosthesis.
2. Suspension system for through Knee Prosthesis.
3. Types of mechanical Prosthetic hip joints.
4. Materials used for Trans Femoral Prosthesis.
5. Casting procedure for Through knee prosthesis.
6. Trans femoral prosthesis TKA line.
7. Types of Prosthetic feet.
8. Different types of technology used in fabrication of Trans Femoral Prosthetic Socket.
9. Quadrilateral Socket Trimliness.
10. Casting procedure for Quadrilateral socket.
