

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

[AHS 0424]

APRIL 2024

Sub. Code: 2467

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER VII – ORTHOTICS SCIENCE - II

Q.P. Code: 802467

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Explain about types of Orthotic Knee Joint with Biomechanical function.
2. Explain about fracture bracing and its Biomechanics.
3. Explain about Knee Orthosis treating Genu varum and Valgum and its Biomechanics.

II. Write notes on:

(8 x 5 = 40)

1. What is CP? Orthotic management for CP.
2. Explain about CDH and its orthotic management.
3. Orthosis for lower motor neuron disorder.
4. What is hemiplegia? Orthotic management of hemiplegia.
5. Explain about types of KAFO.
6. Explain about gait analysis and check out procedure of KAFO user.
7. Orthosis for juvenile hip joint disorder.
8. Explain about gait activated KAFO.

III. Short answers on:

(10 x 3 = 30)

1. What should be considered for orthosis fitting in Leprosy?
2. Write note on FRO and its biomechanical forces.
3. Weight relieving KAFO.
4. Write note on standing frame.
5. Explain about design of paraplegic gait orthosis and its function.
6. Write note on RGO and ARGO.
7. Types of Knee orthosis.
8. Placement of orthotic knee joint and effects of displacement of orthotic knee joint.
9. Explain about Swedish knee cage and its biomechanical function.
10. Explain about parapodium and its function.
