

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2482

**BACHELOR IN PROSTHETICS AND ORTHOTICS**  
**FOURTH YEAR (Regulation 2017-2018 onwards)**  
**PAPER II – ORTHOTIC SCIENCE - IV**  
*Q.P. Code: 802482*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain all types of lumbosacral orthosis.
2. Explain about different types of cervical orthosis.
3. Explain about orthotic management of T8 curvature scoliosis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain about Jewett brace.
2. Milwaukee brace - parts and its function.
3. Anatomical primary curve and secondary curve.
4. Function of pelvic girdle.
5. SOMI brace and its function.
6. Orthotic management of Pott's Spine.
7. Write about sagittal and coronal control TLSO.
8. Kyphotic corrective brace.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Biomechanics of corset.
2. Differentiate between flexible and rigid spinal orthosis.
3. Types of immobilizer.
4. History of spinal orthosis.
5. The Charleston bending Brace.
6. Types of collar.
7. Prescription criteria of spinal orthosis.
8. Williams brace indication.
9. Chair back orthosis.
10. Philadelphia collar.

\*\*\*\*\*