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**Rajiv Gandhi University of Health Sciences, Karnataka**

**IV Year Bachelor in Prosthetics and Orthotics Degree Examination – OCT-2019**

**Time: Three Hours**

**Max. Marks: 80 Marks**

**Orthotic Science - IV**

**Q.P. CODE: 2831**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**ESSAYS TYPE (answer any Two)**

**2 x 10 = 20 Marks**

1. What is low profile orthosis? Explain design and function of any three types of it.
2. Define scoliosis. Describe the various components and their functions of Milwaukee brace.
3. Draw a neat anterior-posterior view and explain the construction and function of Milwaukee brace.

**SHORT ESSAYS TYPE (answer any Six)**

**6 X 5 = 30 Marks**

4. Explain with neat sketch the importance of custom molded shoulder ring for high thoracic curves.
5. Discuss the indication, design and function of Minerva cervical orthosis.
6. What is righting reflex? Explain its importance in the orthotic treatment of scoliosis.
7. Write note on poster collar with neat sketch.
8. Explain about seat belt injuries and its conservative treatment.
9. Discuss the type of spinal fracture and management of compression fracture.
10. Discuss the biomechanical factors of spinal orthosis.
11. Discuss the nonsurgical intervention for kyphosis.

**SHORT ANSWERS TYPE (answer any Ten)**

**10 x 3 = 30 Marks**

12. Oblique upright
13. Measurements required for Lumbo-sacral corset fabrication
14. Cobb's angle
15. Chair back orthosis
16. Charleston bending brace
17. Halo vest
18. Three-poster collar
19. Outrigger
20. Basic collars
21. three point pressure system
22. Pelvic girdle
23. Low stiffness Visco elastic transmitter (LSVT)

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