

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**VII Semester Bachelor of Occupational Therapy Degree Examination – 08-May-2026**

**Time: Three Hours**

**Max. Marks: 100**

**BASICS OF ORTHOTICS AND ASSISTIVE TECHNOLOGY (RS)**

**Q.P. CODE: 3438**

Your answers should be specific to the questions asked  
Draw neat, labeled diagrams wherever necessary

**LONG ESSAYS (Answer any Two)**

**2 x 10 = 20 Marks**

1. Discuss the mechanical principles of splinting and their importance in design
2. Discuss the role of adaptive devices in facilitating mobility and transfers for individuals with physical disabilities
3. Explain the various types of splints and their specific applications

**SHORT ESSAYS (Answer any Ten)**

**10 x 5 = 50 Marks**

4. Mechanical principle of splint
5. Importance of human interface assessment in assistive technology
6. Drawbacks of spinal orthosis
7. Lower limb orthosis
8. Explain in impact of burns on the need for specific splints
9. Assessment procedures for selecting a wheelchair
10. Environmental control units
- 10.
11. Role of adaptive devices in enhancing daily living activities
12. Types of electronic enabling technologies and their roles in assistive devices
13. Discuss the management of burns using splints
14. Importance of human interface assessment in assistive technology
15. Explain soft tissue remodeling and its significance in splinting

**SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

16. Adaptive device
17. Define "Occupational participation" in the context of assistive technology
18. Orthosis
19. Factors considering for selecting adaptive devices for clients
20. Adaptive devices used for dressing
21. Types of splints used for hand injuries
22. Milwaukee brace
23. Ulnar gutter splint
24. List out any 4 spinal braces
25. Principals of splint
26. AFO
27. Thermoplastic

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