Rajiv Gandhi University of Health Sciences, Karnataka

VII Semester Bachelor of Occupational Therapy Degree Examination – 13-Nov-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 different adaptive devices used for ADLs and their clinical applications.
2. Explain the mechanical principles of splinting and their relevance in splint design.
3. Explain the selection, assessment and fitting of wheelchairs for individuals with disabilities.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Explain the importance of assistive technology in rehabilitation.
5. Describe the classification of splints based on function and design.
6. Discuss environmental modification using assistive devices.
7. Explain spinal braces and their clinical uses.
8. Discuss the features and indications of powered wheelchairs.
9. Explain the HAAT model and its components.
10. Discuss the use of splints in soft tissue injury management.
11. Describe key design considerations for spinal orthoses.
12. Outline the ASHT classification system for splints.
13. Explain different types of electronic assistive technologies.
14. Describe environmental control systems and their uses.
15. Explain types of splints used in pediatric cases.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Define assistive technology.
17. Provide a short note on the ulnar gutter splint.
18. List the different types of spinal braces.
19. Provide a short note on HKAFO (Hip-Knee-Ankle-Foot Orthosis).
20. List any two dressing aids.
21. Define tissue remodeling.
22. Provide a short note on built-up handles.
23. Define thermoplastics as used in splinting.
24. Define Ankle Foot Orthosis (AFO).
25. Write any two examples of communication aids.
26. Define occupational participation.
27. Provide a short note on the universal cuff.

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