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

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

**Time: Three Hours**

**Max. Marks: 80 Marks**

**PROSTHETIC SCIENCE - IV**

**Q.P. CODE: 2830**

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. Write down design consideration of sports prosthesis?
2. Describe the management for patient with one side TF amputee & one side TT amputee.
3. What are the common prescription criteria for the prosthesis in case of hip disarticulation amputations? Explain about biomechanics of HD prosthesis.

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

**6 X 5 = 30 Marks**

4. Draw a neat sketch and write about the bench alignment of hip disarticulation prostheses.
5. Explain role of socket flexion in case of excessive lordosis, reduced lordosis and minimized lordosis. Draw neat sketch.
6. Discuss about the socket designs for knee disarticulation with neat sketch?
7. Write note on temporary prosthetic management for bilateral trans femoral amputee
8. Discuss casting technique of hip disarticulation prostheses with a clear diagram.
9. Write note on various suspension modes of Transtibial prosthesis?
10. Write about various consideration during fitting of lower limb prosthesis for Pediatric case.
11. Define the longitudinal deficiency of radius & its management.

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

**10 x 3 = 30 Marks**

12. Phocomelia.
13. Name any 3- assistive devices for ADL activities
14. Suspension system for bilateral TF amputee
15. How is the rocker bottom designed for a stubbies?
16. What are the common congenital anomalies in lower extremity?
17. Which are the most important muscles to control the movement of HD prosthesis?
18. SACH Foot
19. Perineal control harness
20. Common gait deviation in Hip disarticulation prostheses.
21. Silesian Suspension
22. Task specific prosthesis
23. Residual limb activated hinge

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