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Rajiv Gandhi University of Health Sciences, Karnataka

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

Time: Three Hours

Max. Marks: 80 Marks

Orthotics - (RS3)

Q.P. CODE: 2968

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. Describe the following fabrication procedure for SMO with neat sketches. a) Measurement b) Casting c) Rectification d) Trimlines
2. What are the classification of lower extremity orthosis? Explain each type of orthosis with an examples with neat sketch.
3. Explain CTEV. Describe its assessment and orthotic management.

SHORT ESSAYS TYPE (answer any Six)

6 X 5 = 30 Marks

4. If your client has pes valgus and pes planus, what type of orthosis would you choose and why?
5. Describe Sarmiento's principle.
6. Write checkout procedure for articulated ankle foot orthosis
7. Describe principles of tone reducing AFO.
8. Explain biomechanical force systems in posterior leaf spring AFO.
9. What is a UCBL? What is it used for and how does it help?
10. Explain types of insole with reference to foot length and its function.
11. You have a patient who has too much pronation of foot during gait. You decide to modify heel to decrease pronation. What should you do?

SHORT ANSWERS TYPE (answer any Ten)

10 x 3 = 30 Marks

12. What are prescription criteria of ankle foot orthosis?
13. List three major differences between conventional and custom made AFO.
14. What are internal and external shoe modification? Write its advantages and disadvantages.
15. A lateral heel wedge would cause valgus at the knee. Draw sketch to show.
16. What is rocker bottom?
17. What does an orthotist do?
18. List common gait deviations of foot.
19. List the different materials used in the fabrication of an Orthosis.
20. Write the location of mechanical ankle joint with a neat diagram.
21. What are the 2 most commonly prescribes external shoe modification?
22. What are metatarsal pad?
23. How do metatarsal bars help metatarsalgia and relieve plantar pressure?



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