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

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

**Time: Three Hours**

**Max. Marks: 80 Marks**

**ORTHOTICS SCIENCE - II (RS3)**

**Q.P. CODE: 2975**

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 the indication and function of each mechanical knee joint.
2. Discuss in detail of each type of knee orthosis with their indication and function.
3. Write the fabrication process of floor reaction orthoses (FRO).

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

**6 X 5 = 30 Marks**

4. Write the measurement, casting and rectification of Non Ischial weight bearing knee ankle foot Orthosis.
5. Write the checkout procedure of knee ankle foot Orthosis.
6. What is Muscular dystrophy? Write the orthotic management in muscular dystrophy?
7. Explain the biomechanics of Knee ankle foot orthosis with neat diagram.
8. Explain the assessment, measurement and casting procedure of trilateral Orthosis.
9. Write the difference between the polypropylene and conventional knee ankle foot Orthosis.
10. What is paraplegia? Explain the orthotic management of paraplegic patient.
11. Explain the pathological gait (i) Circumductory gait (ii) Posterior trunk bending.

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

**10 x 3 = 30 Marks**

12. Explain the Four point crutch gait.
13. What is Spina bifida? List the orthotic management for Spina bifida patient?
14. Explain three point pressure system.
15. Write the reason of pathological gait.
16. Write the Orthosis used for osteoarthritic knee.
17. Write the indication & function of Plantar flexion stop ankle joint.
18. Write notes on RGO.
19. Write the indication & function of Pelvic band.
20. Write notes of Femoral guard.
21. Write notes on Parapodium.
22. Write the causes of causes of hip hiking gait.
23. Write the parts & measurement of axillary crutch.

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