

## Rajiv Gandhi University of Health Sciences, Karnataka

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

Time: Three Hours

Max. Marks: 80 Marks

### Orthotics Science II

Q.P. Code : 2823

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. Discuss the congenital dislocation of hip and hip dysplasia and its orthotic management.
2. Explain the different types of mechanical knee joint with their indication and function.
3. Discuss in detail each type of knee orthosis with their indication and function.

#### **SHORT ESSAYS TYPE (Answer any six)**

**6 x 5 = 30 Marks**

4. What is cerebral palsy? List the names orthosis for cerebral palsy children and its gait pattern.
5. Write the check out procedure of Hip knee Ankle Foot Orthosis.
6. Write any three gait deviations in detail.
7. Explain the types of Spina Bifida? Write the Othosis for Spina Bifida patients?
8. What are the techniques to accommodate leg length discrepancy while fabricating KAFO?
9. Explain the indication and mechanism of advanced reciprocating gait orthosis (ARGO).
10. What is spinal cord injury? Write the orthotic management.
11. What is Swivel walker? Explain its mechanism.

#### **SHORT ANSWERS (Answer any ten)**

**10 3 = 20 Marks**

12. Mechanical hip joint
13. Double assist joint
14. Management of foot drop deformity
15. Femoral fracture guard
16. Tone reducing AFO
17. Swing through gait
18. Write the material and tool used for HKAFO casting
19. Write the orthotic management of Leprosy patients
20. Non Ischial weight bearing orthosis
21. Static alignment
22. Three force system in Genu valgum
23. Pressure sore

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