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# Rajiv Gandhi University of Health Sciences, Karnataka

II Year Bachelor in Prosthetics and Orthotics Degree Examination - OCT-2019

Time: Three Hours Max. Marks: 80 Marks

## PROSTHETIC SCIENCE - II Q.P. CODE: 2822

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

- Explain in detail about assessment, casting, measurement and alignment procedure of knee disarticulation modular prosthesis.
- What are the causes of abnormal gait? Explain the following gati deviations (a) Asymmetrical pelvis (b) Lumbar Lordosis (c) Circumductory gait.
- What are the types of prosthetic knee joint? Discuss about hydraulic and pneumatic control unit of knee.

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

6 X 5 = 30 Marks

- Write about trans femoral endoskeleton prosthetic components with neat diagram.
- Explain the Anterior Posterior (AP) forces in trans femoral prosthesis during stance phase with neat diagram.
- Write the advantages and disadvantages of endoskeleton and exoskeleton trans femoral prosthesis.
- Write the checkout procedure of trans femoral prosthesis.
- Write the care, maintenance and instructions to be given before discharging the prosthesis.
- Write the position of hip joint in hip disarticulation prosthesis with diagram.
- Write the biomechanical advantage of long stump over short stump in trans femoral prosthesis.
- 11. What is alignment? Explain any two types of alignment for trans femoral prosthesis.

### SHORT ANSWERS TYPE (answer any Ten)

10 x 3 = 30 Marks

- 12. Define energy storing foot.
- What is ISNY and CADCAM socket?
- Write the level of amputation for lower limb.
- Write the advantages and disadvantages of Silesian suspension.
- Draw the pathway of Instantaneous Center of Rotation (ICR).
- 17. Define hemipelvictomy.
- Define single axis foot.
- 19. Write the function of Quadrilateral socket.
- 20. Write the material used in the fabrication of trans femoral socket.
- 21. What is Marlo Anatomica Socket (MAS socket)?
- 22. Write the causes for abducted gait.
- Write the tools used for trans femoral casting.

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