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**

Prosthetics - (RS3)

Q.P. CODE: 2967

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. Explain the biomechanics of transtibial socket and prosthesis.
2. Write the classification of prosthetic foot. Explain dynamic response foot in brief.
3. Describe the measurement and casting process of PTBSC transtibial socket.

SHORT ESSAYS TYPE (answer any Six) **6 X 5 = 30 Marks**

4. Describe the medial thrust and its corrective management.
5. Explain the rectification process of symes prosthesis with end weight bearing.
6. Explain the checkout procedure of transtibial prosthesis.
7. Explain the types of low ankle prosthesis for partial foot prosthesis with amputation levels.
8. Illustrate and write briefly the anterior-posterior forces acting on symes stump during stance phase.
9. Explain the position of knee joints in joint and thigh corset with its indication and contraindications.
10. Explain the biomechanics of symes socket.
11. Differentiate endoskeletal & exoskeletal prosthesis.

SHORT ANSWERS TYPE (answer any Ten) **10 x 3 = 30 Marks**

12. List the different transtibial stump shape. Mention types of scar found in stump.
13. Describe articulated prosthetic foot.
14. Mention and justify the prosthetic foot for an amputee with quadriceps weakness.
15. Mention the socket design with reason for a diabetic transtibial amputee with good collateral ligament stability of the knee joint.
16. What is a temporary socket? List the other terminology used for this type of socket.
17. List the landmarks for symes prosthesis casting and measurement.
18. Mention the indications for PTB SCSP socket.
19. Draw a transtibial bench alignment sketch in frontal and sagittal plane.
20. Describe the alignment adjustment possible in metallic and polypropylene transtibial components.
21. Define prosthetics and prosthesis.
22. Mention the importance of amputee assessment.
23. List the causes for excessive knee flexion.

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