Rajiv Gandhi University of Health Sciences, Karnataka

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

Time: Three Hours **Max. Marks: 80 Marks**

Prosthetics Science - III (Revised Syllabus)

Q.P. CODE: 2827

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. A 19 years old college student (boy) is bilateral amputee. His right side is standard trans radial & left side is a long trans humeral stump. Discuss about all the appropriate possibility of prosthetic management which will approximately fulfill his requirement.
2. Discuss about terminal device & its classification. Explain any 3 voluntary opening T.D. & any 2 voluntary closing T.D. in detail with neat sketch?
3. Discuss about mechanical checkout of the trans radial prosthesis?

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

4. Discuss in detail about externally powered prosthesis.
5. Write note on cable control system for trans humeral & shoulder disarticulation with a neat sketch.
6. Write the casting, modification & fabrication procedure of wrist disarticulation prosthesis.
7. Discuss about the shoulder disarticulation prosthesis socket designs in detail.
8. Write note on cosmetic restoration prosthesis used in upper limb.
9. Write note on excursion amplifier.
10. Explain the elbow hinges for trans radial prosthesis.
11. Discuss the biomechanical effect of trans radial stump on socket design with a cross section of the stumps at different level?

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

12. Forearm flexion assist
13. Endoskeletal shoulder disarticulation prosthesis
14. Base plate, retainer & rubber disc
15. CAPP terminal device
16. Note on oval & round wrist unit
17. Differentiate between Lyre shape & canted hook
18. Krukenberg Amputation
19. Polycentric hinge
20. APRL HAND
21. Four function wrist
22. Sequence of operation in trans humeral prosthesis
23. TRAC socket

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