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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T Degree Examination - SEP-2018

Time: Three Hours Max. Marks: 100 Marks

BIO-MECHANICS (RS-5) Q.P. CODE: 2734

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary. LONG **ESSAYS (Answer any Two)**

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe in detail about levers with examples.
- 2. Write in detail about Shoulder joint.
- 3. Explain Gait and its determinants.

SHORT ESSAYS (Answer any Twelve)

 $12 \times 5 = 60 \text{ Marks}$

- Explain Newton's law with example.
- Saggital plane analysis of posture 5.
- Explain goniometric measurement of ROM of elbow joint. 6.
- Movements and muscle actions of wrist joints 7.
- Properties of connective tissue
- 9. Movements of thorax and ribcage
- 10. Movement analysis of sitting to standing
- 11. Structure and function of plantar arches
- 12. Analysis the forces acting on hip joint during unilateral stance phase
- 13. Describe Tibiofemoral Meniscus.
- 14. Explain any two pathological gaits.
- 15. Write a note on static and dynamic posture.
- 16. Different types of muscle contraction
- 17. Scapula-humeral rhythm

SHORT ANSWERS $10 \times 2 = 20 \text{ Marks}$

- 18. Precision grip
- 19. Convex-Concave rule
- 20. Carrying angle
- 21. Diarthrodial joint
- 22. Hinge joint
- 23. Isotonic contraction
- 24. Patellar movements
- 25. Stress-strain curve
- 26. Types of Goniometer
- 27. Open kinematic chain