

www.FirstRanker.com

www.FirstRanker.com

2704_2013_2_S201

Rajiv Gandhi University of Health Sciences, Karnataka

I Year BPT Degree Examination – Aug 2013

Time: Three Hours

BIO-MECHANICS (RS-3) **Q.P. CODE: 2704**

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

- 1. Explain the kinetics and Kinematics of gait
- 2. Discuss the biomechanics of cervical spine
- 3. Discuss the biomechanics of shoulder complex and explain the dynamic stability in detail

SHORT ESSAYS (Answer any Eight)

- 4. Discuss the plantar arches
- 5. Write a short on tonic and phasic muscles
- 6. Analyse the movement of pulling
- 7. Explain the movements of scapulothoracic joint
- 8. What is base of support? Explain it in relation to mobility and stability
- 9. Explain the structure and function of intervertebral disc
- 10. Explain lumbopelvic rhythm
- 11. Explain young's modulus in relation to stress and strain
- 12. Types of muscle contraction. Give example
- 13. Explain Length tension relationship

SHORT ANSWERS

- 14. Carrying angle
- 15. Pivot joint with example
- 16. Define Dynamic friction
- 17. Define Double support time
- 18. Prime movers
- 19. Scoliosis
- 20. Hallux valgus
- 21. Define energy
- 22. Explain tibial torsion
- 23. Define Inertia

10 x 2 = 20 Marks

www.FirstRanker.com

Max. Marks: 80 Marks

8 x 5 = 40 Marks

 $2 \times 10 = 20$ Marks