Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.P.T. Degree Examination - APRIL-2019

Time: Three Hours   **Max. Marks: 100 Marks**

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

Your answers should be spedfic to the questions asked.
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer arty Two)   **2 x 10 = 20 Marks**

1. Define muscle tension and explain the factors affecting muscle tension.. **Add** *a* note on length tension relationship of a muscle.
2. Define movement analysis and explain the analysis of liftEng in detail.
3. Describe the structure of subtala r joint in detail and explain the s,gnificance of plantar arches of foot.

SHORT ESSAYS (Answer any Twelve)   **12 x 5 = 60 Marks**

4. Describe kinematics of elbow joint.
5. Deviaticris of posture in sagittal plane
6. Dynamic stability of shoulder joint
7. Trendelenberg gait
8. Structure of ternperomandibular joint
9. Pump handle and bucket handle movement of ribs
10. Anatomical pulleys
11. Explain force velocity relationship of a muscle.
12. Classify synovial joints in detail.
13. Briefly explain concept of active and passive insufficiency.
14. Define end-feel and enumefate various types of end-feel.
15 Explain time and rate dependent properties of connective tissue,
16 Enumerate various power Tips of hand.
17, Briefly explain determinants of gait in detail.

SHORT ANSWERS   **10 x 2**

18. Spurt and Shunt muscle
19. Cubltus valgus and varus
20. Importance of levers in physiotherapy
21. Pes cavJs and pes planus
22. Q angle **and Its significance**
23, Case **packed** and loose pac<ed position
24. Define goniometer and mention different **types of goniometer,**
25, Concavo convex rule
26. Define isotonic contraction and **its** types.
27. Anteversion and retroversion