

Rajiv Gandhi University of Health Selene



I Year **B.P.T.** Degree Examination - SEP - **2016**

Time: Three Hours

Max. 14a: ks: 100 Marks BIO-MECHANICS (Revised Scheme - 4)

BIO-MECHANICS (Revised Scheme - 4)
Q.P. CODE: 2707

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. Define Gait. Mention the phases of gait cycle. Explai: sagittal plane analysis of cait.
- 2. DISCUSS In detail kinetics and kinematics of thoracic rib cage.
- 3. Classify joints in detail with examples and neat diagrams.

SHORT ESSAYS (Answer any Twelve)

 $L2 \times 5 = 60 \text{ Marks}$

- 4. Discuss iro brief about length tension and force velocity relationship of a muscle.
- 5. Define anatomical pulley and explain in detail with an example in human body
- 6. Define Lever and explain in detail about III: order lever with example and neat diagram.
- 7. Explain the structure of Tempera mandibular joint.
- 8. Musculo skeletal changes following COPD
- 9. Classification of synovial joints In detail
- 10. Classify different types of joint lubrication in detail.
- 11. Time dependent and rate dependent properties of connective tissue
- 12. Energy expenditure of gait
- 13. Kinetics and kinematics of posture
- 14. Enumerate various pinches of hand complex.
- 15. Structure of shoulder complex
- 16. Mention in detail about various deviations occurring at knee joint.
- 17. Static stability of hip joint

SHORT ANSWERS

 $10 \ 2 = 20 \ Marks$

- 18. Good and bad posture
- 19. Name the ligaments of shoulder joint.
- 20. Functions of Meniscus
- 21. Clinical significance of plantar arches
- 22. Static and dynamic balance
- 21 Name the factors affecting muscle function.
 - 24. COG and LOG
 - 25. Kinetics and Kinematics tir
 - 26. Angle of Inclination of Humerus



27. Active insufficiency

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