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Rajiv Gandhi University of Health Sciences, Karnataka I Year B.P.T Degree Examination - 01-Feb-2021

Time: Three Hours

Max. Marks: 100 Marks

 $2 \times 10 = 20$ Marks

10 x 5 = 50 Marks

10 x 3 = 30 Marks

BIO-MECHANICS (RS5)

Q.P. CODE: 2734

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

LONG ESSAYS (Second Question Choice)

- 1. Name the structures which help in stability of lumbar vertebral column. Explain in detail the biomechanics of lumbar spine.
- 2. What structures comprises Extensor mechanism. Write in detail about the extensor mechanism of hand.

OR

Define Gait. Explain the determinants of gait in detail.

SHORT ESSAYS (Question No 3 & 12 choice)

3. Write a note on the types of muscle fibers and its characteristic features. **OR**

Describe the structure and function of intervertebral disc.

- 4. Explain briefly stability of radioulnar joint.
- 5. Explain open kinematic chain and closed kinematic chain with examples.
- 6. Define joint. Write a note on synovial joint.
- 7. Explain Gleno-humeral rhythm.
- 8. Explain the strategies to maintain postural balance.
- 9. Write a note on movements of temporomandibular joint.
- 10. Describe the function of diaphragm during ventilation.
- 11. Discuss in brief about supination and pronation twist.
- 12. Add a note on knee joint burse.

OR

Write a note on trabecular system of hip joint.

SHORT ANSWERS

- 13. What is Q angle?
- 14. What is metatarsal break?
- 15. Write any two gait deviations.
- 16. What is mechanical advantage?
- 17. What are the movements of sacrum?
- 18. What is young's modulus?
- 19. What is Active insufficiency?
- 20. Name the types of muscle contraction
- 21. What is double support time?
- 22. Describe meniscus.