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## Rajiv Gandhi University of Health Sciences, Karnataka I Year B.P.T. Degree Examination - 10-Mar-2021

Time: Three Hours Max. Marks: 100 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)

2 x 10 = 20 Marks

- Describe in detail about scapulo humeral rhythm.
- 2. Describe the structure of hip joint and add a note on use of a cane on Ipsilateral side.

OR

Define muscle contraction and enumerate the factors affecting muscle contraction, and add a note on different types of muscle contraction.

## SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Explain locking and unlocking mechanism of knee joint.

OR

Describe II order lever with example related to human body.

- Explain briefly Trendelenberg gait.
- 5. Define end feel and enumerate different types of end feel.
- 6. Explain in detail about functional position of wrist and hand.
- Explain briefly plantar arches.
- Describe length tension relationship of a muscle.
- Describe structure and function of temporomandibular joint.
- 10. Explain in brief Kinematics of wrist joint.
- 11. Describe pes planus and pes cavus.
- Explain briefly Lumbo pelvic rhythm.

OR

Explain the concept of stability in shoulder joint.

SHORT ANSWERS 10 x 3 = 30 Marks

- 13. Define moment arm of force.
- 14. What are spurt and shunt muscle?
- 15. What is grasshopper eye patella?
- Define axis and plane.
- 17. What is windlass mechanism?
- 18. What is kyphosis and lordosis?
- 19. Write in short stress strain curve.
- 20. Name the ligaments of hip joint.
- 21. What is central edge angle?
- Define COG and LOG.