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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - 01-Feb-2021

Time: Three Hours

BIO-MECHANICS (RS4)

Q.P. CODE: 2707

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

LONG ESSAYS (Second Question Choice)

- 1. Define Levers. Classify levers with examples and diagrams.
- 2. Enumerate various grips of hand in detail with examples.

Describe in detail about scapulohumeral rhythm and its clinical significance.

SHORT ESSAYS (Question No 3 & 12 choice)

3. Screw home mechanism of knee joint.

OR

- Mention in brief about various prehensions of hand.
- 4. Lumbopelvic rhythm.
- 5. Mechanics of ventilation.
- 6. Palmar arches.
- 7. Analysis of forces in Unilateral stance.
- 8. Define posture and mention in brief about abnormalities of posture.
- 9. Gait cycle in detail.
- 10. Pes planus and Pes cavus
- 11. Classify synovial joints in detail.
- 12. Mention in brief about different types of muscle contraction.

OR

Carrying angle and its significance.

SHORT ANSWERS

- 13. Define postural sway.
- 14. Passive insufficiency with example.
- 15. Acetabular labrum importance.
- 16. Name the muscles of Inspiration and Expiration.
- 17. Squinting of patella.
- 18. Angle of inclination of femur and its significance.
- 19. Hysteresis.
- 20. Name the ligaments of knee joint and its functions.
- 21. Name the plantar arches and its attachments.
- 22. Name the rotator cuff muscles and its role in shoulder joint stability.

2 x 10 = 20 Marks

Max. Marks: 100 Marks

10 x 5 = 50 Marks

10 x 3 = 30 Marks

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