Rajiv Gandhi University of Health Sciences, Karnataka Second Year Master of Physiotherapy Degree Examination - 12-Nov-2025

[Time: 3 Hours] [Max. Marks: 100]

Basic Medical Sciences for Sports Physiotherapy – Paper II (RS-4) Q.P. CODE: 8133

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

Answer All The Questions

10 X 10 = 100 Marks

- 1. Explain the neurophysiology of balance.
- 2. Discuss the importance of force system and application of lever system in sports with suitable examples.
- 3. Identify the psychological aspects of athletes and list the psychological behavioural symptoms after injury. Describe briefly any one of the symptoms.
- 4. Explain the anti-doping guidelines of WADA in sports.
- 5. Describe the physiological adaptation and benefits of high altitude training.
- 6. List the non-communicable diseases (NCDs). Outline the importance of prevention of NCDs through physical activity.
- 7. Compare and contrast the patho-mechanics of tendon and muscle at different stages of healing.
- 8. Develop exercise and dietary precautions to be taken in diabetic athletes during strength and conditioning.
- 9. List the fundamental principles of training and enumerate the components of exercise prescription for performance enhancement.
- 10. An athlete visits sports physiotherapist for strength and conditioning after 2 weeks of hamstring muscle strain. Discuss the periodization principles in implementing strengthening program. Add a note on exercises progression.

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