

Rajiv Gandhi University of Health Sciences, Karnataka
Second Year Master of Physiotherapy Degree Examination – 06-May-2026

[Time: 3 Hours]

[Max. Marks: 100]

Basics of Cardiovascular and Pulmonary Sciences - Paper-II (RS-4)
Q.P. CODE: 8136

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 Lung Compliance. Write a note on the factors contributing to decreased lung compliance.
2. Explain regulation of peripheral vasculature in control of cardiovascular system.
3. Describe electrical properties of the skin.
4. Explain the nutrient requirement and energy expenditure of trained individuals and sedentary individuals.
5. What is Hydrostatic Weighing? Explain the components assessed with it and write a note on the procedure.
6. Detail the differences in adaptation of the cardiovascular system in male and female as a response to training for strength, endurance and flexibility.
7. Discuss the advantages and disadvantages of aerobic system training.
8. Describe the biochemical primers measured pre-exercise prescription. Add a note on the normative values and it's inference in relation to different conditions.
9. Explain the components of the complex psycho-physiological dimensions of chronic pain
10. Discuss the role of caloric balance in weight control.

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