Rajiv Gandhi University of Health Sciences, Karnataka

Second Year Master of Physiotherapy Degree Examination – 27-Oct-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. Describe the neural regulation of breathing and add a note on the respiratory centers.
2. Explain the pathophysiology of congestive heart failure and detail its causes.
3. Describe in brief about energy efficiency and MET of aerobic activities.
4. Describe in detail the difference in adaptations of the respiratory system in different genders in response to different exercises.
5. Describe the responses and adaptations of aerobic exercise in adults.
6. Describe the role of physical activity in weight control.
7. What is skin? Write a detailed note on the layers and functions of skin.
8. Explain pain physiology as an essential to rationally examine an select appropriate pain management tools in patient care.
9. What are the signs of exercise intolerance in old age?
10. Describe aerobic metabolism, and enumerate its importance.

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