

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

**[Time: 3 Hours]**

**[Max. Marks: 100]**

**Fundamental Principles of Movements and its Dysfunction–Paper-II(RS-4)**  
**Q.P. CODE: 8148**

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. Write a descriptive note on general training principles and adaptations to exercise training.
2. Critically describe factors limiting all-out aerobic performances and sites of fatigue in detail.
3. Compare and contrast principles underlying surface electrode and needle electrode EMG.
4. Discuss any one laboratory and field method for assessing VO<sub>2</sub> Max in detail.
5. Describe how architectural barriers in public places may cause chronic movement dysfunction
6. What are the systems involved in motor learning? Critically discuss the various adaptations due to environment that affect motor learning.
7. Explain briefly about the concept and components of motor control.
8. Explain any three physiological changes with aging that impacts safe gait.
9. Analyze the possible adaptations that may occur in an auto rickshaw driver. Add a note on the risk factors for possible long term dysfunctions.
10. Explain in detail about the application of EMG biofeedback in rehabilitation.

\* \* \* \* \*