

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

**[Time: 3 Hours]**

**[Max. Marks: 100]**

**Basic Sciences for Neurological Physiotherapy - Paper –II (RS-4)**  
**Q.P. CODE: 8142**

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. Define Spasticity? What are the causes of spasticity and explain the patho-physiology of spasticity.
2. Define CVA? What are the causes, clinical manifestations and complications of CVA.
3. Explain the structure, function and applied pathology of basal ganglia? Add a note on role of Basal ganglia in motor control.
4. Write about various stages of sensory& motor development
5. What is motor learning? Compare any two models of motor learning.
6. Explain about the various factors contributing in motor learning.
7. Write about Neuro-Physiology of postural control.
8. Define the health behavior, types of health behavior and how health behavior effect the Neuro rehabilitation.
9. Define Neuro plasticity and explain about the various adaptations that occur in Neuro-muscular system.
10. Explain about the changes occurring in Gait parameters in Parkinson's Disease.

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