Rajiv Gandhi University of Health Sciences, Karnataka

Second Year Master of Physiotherapy Degree Examination – 27-Oct-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. Outline applied neurophysiology of cerebellum
2. Discuss pathophysiology of athetosis
3. Contrast systems theory and Hierarchial theory of motor control
4. Explain stages of motor learning with examples
5. Discuss application of "Central Pattern Generation" theory in motor control
6. Discuss the need for caregiver education and training for traumatic brain injury
7. Outline metabolic influences on neural plasticity
8. Discuss role of environmental variables in neurodevelopment
9. Describe the pathophysiology and mechanisms of spasticity
10. Outline gross motor development in ontogeny

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