

Rajiv Gandhi University of Health Sciences, Karnataka
Second Year Master of Physiotherapy Degree Examination – 22-Nov-2024

[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. Explain the motor development of milestones from birth to two years of age.
2. Explain the anatomy and physiology of the peripheral nerve and neuromuscular junction.
3. Explain the relationship between theories of motor control and the parallel development of clinical methods related to neurologic rehabilitation.
4. Explain the action components of postural control. Define principles of strategies and how they change according to task and environmental demands.
5. Explain the contributions of neural and musculoskeletal systems to reach and grasp skills, and predict the skill deficits that would occur with lesions to these systems.
6. Define aging. Explain the theories of aging.
7. Explain the major kinematic, kinetic, and Electromyographic changes that occur during the development and maturation of independent gait in children and the changes in these parameters that occur with aging.
8. Explain Normal responses to aerobic exercises with respect to energy transfer, oxygen intake, and oxygen debt.
9. Explain the response of Blood pressure during resistance exercise, upper body exercises, and exercise in the inverted position.
10. Describe the hormonal regulation of fluid balance during exercise.

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