



Rajiv Gandhi University of Health Sciences
Master of Physiotherapy Degree Examination - May 2014

[Time: 3 Hours]

[Max. Marks: 100]

Paper II - Biomechanics, Exercise Physiology & Electrophysiology
(RS & RS 2)

Q.P. CODE : 8112

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY

2 X 20 = 40 Marks

1. Mention the principles of ergonomics. Describe the biomechanics involved in the transfer from wheel **chair** to bed.
2. Identify the various body systems that undergo adaptation with exercise. Explain **the changes** that occur in each system with aerobic exercise programs.

SHORT ESSAY

6 X 10 = 60 Marks

Explain the types of energy systems.

4. Write a **note** on F wave and **H reflex studies**.
5. List the **types of stimulation** used for training a weak muscle. **Explain the** effects of the currents used.
6. Describe **Creep** phenomena.
7. Give the **principles of exercise prescription** on each type of diabetes.
8. Biomechanics of functional **hand position**.

