

[LB 751]

**OCTOBER 2012**  
**MPT DEGREE EXAMS**  
**FIRST YEAR**  
**PAPER I – APPLIED BASIC SCIENCES**  
*Q.P. Code : 278151*

**Sub. Code: 8151**

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Describe about injury prevention and ergonomics.	17	40	20
2. Discuss about heavy exertion and energy demands of various occupations.	17	40	20

**II. Write notes on :**

1. Matrix.	4	10	6
2. Adult education.	4	10	6
3. Funding in research.	4	10	6
4. Ground reaction forces.	4	10	6
5. Implementing the projects.	4	10	6
6. Static loading of the upper limb.	4	10	6
7. Principles of experimental design.	4	10	6
8. Biomechanics of peripheral nerves.	4	10	6
9. Measurement tools for physiotherapy research.	4	10	6
10. Energy delivery and utilization in endocrine system.	4	10	6

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