

**PG Degree Examinations in Physical Medicine & Rehabilitation  
(MD) -May 2013**

**Paper I – Basic Sciences as Applied to Physical Medicine & Rehabilitation**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays: (20)**

1. What are the different tracks passing through the spinal cord. How can this knowledge help us clinically localize the lesions in spinal cord. Draw appropriate diagram.

**Short essays: (10x8=80)**

2. Neuro-muscular junction.
3. Physiology of micturition
4. Calcium and vitamin D metabolism.
5. Determinants of gait cycle and its importance
6. Renal function test and its importance in rehabilitation medicine
7. Treadmill test
8. Ultrasound and its application in physical medicine
9. Cardiovascular system changes in spinal cord injury.

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