

[LA 751]

MAY 2012

Sub. Code: 8151

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION****FIRST YEAR****(Common to all Branches)****PAPER I – APPLIED BASIC SCIENCES*****Q.P. Code: 278151*****Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :****Pages Time Marks  
(Max.) (Max.) (Max.)**

- |                                                                                                      |    |         |    |
|------------------------------------------------------------------------------------------------------|----|---------|----|
| 1. Describe in detail about biomechanics and pathomechanics of thorax and abdominals in respiration. | 17 | 40 min. | 20 |
| 2. Discuss about exercise at different altitudes and various climatic conditions.                    | 17 | 40 min. | 20 |

**II. Write notes on:**

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|-----------------------------------------------|---|---------|---|
| 1. Group designs.                             | 4 | 10 min. | 6 |
| 2. Exit assessment.                           | 4 | 10 min. | 6 |
| 3. Outcome research.                          | 4 | 10 min. | 6 |
| 4. Statistical reasoning.                     | 4 | 10 min. | 6 |
| 5. Weighted capabilities.                     | 4 | 10 min. | 6 |
| 6. Energy spectrum of exercise.               | 4 | 10 min. | 6 |
| 7. Pathomechanics of paraplegia.              | 4 | 10 min. | 6 |
| 8. Publishing physiotherapy research.         | 4 | 10 min. | 6 |
| 9. Biomechanical examination of foot.         | 4 | 10 min. | 6 |
| 10. Back care for physiotherapist in clinics. | 4 | 10 min. | 6 |

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