

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 153]

MAY 2019

Sub. Code: 8153

**MPT DEGREE EXAMINATION**  
**(Common to all Branches)**  
**(Regulations for the candidates admitted from 2018-2019 onwards)**  
**FIRST YEAR**  
**PAPER I – APPLIED BASIC SCIENCES**

*Q.P. Code : 278153*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Central tendency. Explain measures of Central tendency with examples. Add a note on Merits, Demerits and Limitations of Central tendency.
2. Explain the Kinetics, Kinematics and Pathomechanics of Lumbar spine. List the common Ergonomic advice given for Lumbar spine.

**II. Write notes on:**

**(10 x 6 = 60)**

1. History of Ergonomics.
2. Job site analysis.
3. Pathomechanics of Peripheral nerves.
4. Exercise guidelines for Type I Diabetics.
5. Energy delivery and utilization in Musculoskeletal system.
6. Factors influencing Body Mass Index.
7. De-conditioning.
8. Principles of Assessment.
9. Clinical Demonstration.
10. Role of a Physiotherapy Council.

\*\*\*\*\*