

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

[MPT 0222]

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 8151**

**MPT DEGREE EXAMINATION**

**FIRST YEAR - (Regulations for the candidates admitted on or before the A.Y.2017-2018)**

**PAPER I – APPLIED BASIC SCIENCES**

*Q.P. Code : 278151*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe in detail about the factors affecting the stability of knee joint.
2. Explain about the sources of review of literature and its uses in a research.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Job analysis.
2. Effects of regular exercise on cardio vascular system.
3. Scales used to classify data.
4. Swan neck deformity.
5. Plyometrics.
6. Glycemic index.
7. Types of muscle contraction.
8. Ergonomical modification for Computer Operator.
9. Biomechanical properties of bone.
10. Off-season exercises for athletes.

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