



[LO 751]

**MAY 2019**

Sub. Code: 8151

**MPT DEGREE EXAMINATION**  
**(Common to all Branches)**  
**FIRST YEAR**  
**PAPER I – APPLIED BASIC SCIENCES**

*Q.P. Code : 278151*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the components of the static and dynamic stabilisers of the shoulder joint and add a note on Bankart's lesion.
2. Explain the various system of energy transfer during exercise.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Types of Patellar Morphology.
2. Methods of qualitative research.
3. Closed pack position and loose pack position of joint.
4. Acclimatization.
5. Causes of work related musculoskeletal disorders.
6. Common Pathological gait in neurological disorders.
7. Research ethics.
8. How to control ergonomic risk factors?
9. Carbohydrate loading diet.
10. Types of muscle fibre.

\*\*\*\*\*