

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

[BPT 0122]

**JANUARY 2022
(AUGUST 2021 EXAM SESSION)**

Sub. Code: 6256

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR – (Regulations of 2004-2005 & 2006-2007 are merged with 2010-2011)
PAPER II – BIO-MECHANICS, APPLIED ANATOMY AND KINESIOLOGY
*Q.P. Code : 746256***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Describe hip joint in brief and give its biomechanics in detail. Brief on its Pathomechanics also.
2. Define and describe Gait. Explain any three pathological gaits in detail.

II. Write notes on: **(8 x 5 = 40)**

1. Length – tension relationship in a muscle.
2. Ergonomics.
3. Lumbo sacral rhythm.
4. Bilateral stance.
5. Motor unit and its firing.
6. Prehension.
7. Arthro kinematics in shoulder.
8. Pes Cavus.

III. Short answers on: **(10 x 2 = 20)**

1. Genu Valgum.
2. Arcuate lines.
3. ISO inertia.
4. Extensor expansion.
5. Plane of thumb.
6. Carrying angle.
7. Creep behavior.
8. Trendelenberg's sign.
9. Locking mechanism.
10. Angle of pull.
