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

[BOT 0423]   **APRIL 2023**   **Sub. Code: 6177**
(FEBRUARY 2023 EXAM SESSION)

BACHELOR OF OCCUPATIONAL THERAPY DEGREE COURSE
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time : Three hours   **Answer ALL Questions**   **Maximum : 100 Marks**

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

1. Explain in detail about the Movement of Pelvis on the Femur with regard to Pelvic tilts.

2. Define gait and determinants of gait.

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

1. Ligaments of the Wrist complex.
2. Differentiate Kinetic and kinematics with examples.
3. What is a high arched food?
4. Differentiate between active and passive motion.
5. Genu valgum and Genu varum.
6. Anterior Cruciate Ligament injury.
7. Carrying angle and its significance.
8. Effects of exercise on respiration.

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

1. Limb length discrepancy (LLD).
2. Strain.
3. Trigger finger.
4. Hammer toe.
5. Newton's second law.
6. Saddle joint.
7. Define lever.
8. Center of gravity.
9. Anatomic pulley.
10. Flat foot.

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