

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

[BOT 0622]

**JUNE 2022
(FEBRUARY 2022 EXAM SESSION)**

Sub. Code: 6177

**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 Kinematics and Kinetics of the Vertebral Column.
2. Define Gait and determinants of Gait.

II. Write notes on:

(8 x 5 = 40)

1. Write about ankle joint function.
2. Describe a normal E.C.G.
3. Inversion and eversion of foot.
4. Degeneration and re-generation of nerves.
5. Angulations of the Femur.
6. Lung volumes and capacities of client with Chronic Obstructive Pulmonary Disease.
7. Passive insufficiency.
8. Factors affecting Elbow Muscle Activity.

III. Short answers on:

(10 x 2 = 20)

1. Khyphosis.
2. Eccentric contraction.
3. The motor unit.
4. Anti – Deformity Position.
5. Trendelenburg Gait.
6. Quadriceps Lag.
7. Hallux Valgus.
8. Ground Reaction Force.
9. Pressure Sores.
10. Any 2 Primary rules of Forces.
