

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

[BOT 0122]

**JANUARY 2022
(AUGUST 2021 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. Describe in detail about Carpometacarpal joints of fingers, Range of motion & its contribution to Palmar arch system.
2. Write in detail about Properties of mixed nerves.

II. Write notes on:

(8 x 5 = 40)

1. Muscles in first & second class lever system.
2. Explain Stress & strain.
3. Write about Arthrokinematics.
4. Active insufficiency.
5. Explain Young's Modulus.
6. Motions of the Scapula.
7. Motions of the pelvis on the Femur.
8. Types of displacement on a rigid segment

III. Short answers on:

(10 x 2 = 20)

1. Creep.
2. Tidal volume.
3. Legg –Calve-Perthes Disease.
4. Mention any 2 factors affecting active Muscle tension.
5. What is Volar Intercalated Segmental Instability.
6. Define moment arm.
7. Coxa Vara.
8. Housemaid's knee.
9. Angular velocity.
10. What is slipped Capital Femoral Epiphysis.
