

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

[LN 6157]

AUGUST 2018

Sub. Code : 6157

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2010-2011 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED
PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours

Maximum: 100 Marks

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

1. Define Gait. Describe the phases and determinants of Gait.
2. Describe the biomechanics of Elbow joint.

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

1. Ligaments of knee joint.
2. Joints in the shoulder complex.
3. Stability factors in the vertebral column.
4. Classes of levers in the human body.
5. Arches of foot.
6. Cane use in painful hip conditions.
7. Types of muscle contraction.
8. Sagittal plane analysis of sitting posture.

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

1. Define force.
2. Mechanical advantage.
3. Tenodesis grasp.
4. Passive tension.
5. Delayed onset of muscle soreness.
6. Lateral epicondylitis.
7. Wattenberg's sign.
8. Anti-deformity position.
9. Nursemaid's elbow.
10. Action of lumbricals.
