

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

[LQ 6157]

FEBRUARY 2020

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 Center of gravity and explain assessment of Center of gravity of Human body.
2. Describe in detail the structure and function of the extensor mechanism of Fingers.

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

1. Screw home mechanism of knee.
2. Determinants of gait.
3. Atlanto-axial joint mobility factors.
4. Why should one use a cane ipsilaterally?
5. Reciprocal Innervations.
6. Why should hand tools be made with a pistol grip?
7. Mechanism of respiration.
8. Lung volumes and capacity.

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

1. Concurrent forces.
2. Bunnell's sign.
3. Newton's Law of reaction.
4. Stability factors of shoulder joint.
5. Lateral pelvic tilt.
6. Lung compliance.
7. Limb length discrepancy.
8. Spring ligament.
9. Coupling action.
10. Breath Sound.
