

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

[LQ 6177]

FEBRUARY 2020

Sub. Code: 6177

**BOT DEGREE EXAMINATION**  
(New Regulations for the candidates admitted from 2014-2015 onwards)  
**SECOND YEAR**  
**PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED**  
**PHYSIOLOGY**

*Q.P. Code: 786177*

**Time: Three hours**

**Maximum: 100 Marks**

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

1. Movements of the Ribcage. Artificial respiration.
2. Determinants of Gait.

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

1. Primary curves of the vertebral column.
2. Coupling.
3. Squat lift Vs Stoop lift.
4. Annular pulleys.
5. Scapulo-humeral rhythm.
6. Types of muscle contraction.
7. Cross bridges.
8. Genu Valgum and Varum.

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

1. Hammer toe.
2. Closed packed position of the elbow.
3. Trigger finger.
4. Compliance.
5. Nucleus pulposus.
6. Pump-handle movement.
7. Second-class lever.
8. Strain.
9. Hand to knee gait.
10. Limb Length Discrepancy (LLD).

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