

[LO 6177]

FEBRUARY 2019

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. Analysis of posture in the sagittal plane.
2. Define cardiac cycle. Describe the phases of cardiac cycle.

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

1. Carpal tunnel syndrome.
2. Precision handling.
3. Alpha motor neuron.
4. Movements of the ribcage.
5. Determinants of gait.
6. Contractile unit of muscle.
7. Passive insufficiency.
8. Properties of ventilatory muscles.

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

1. Anatomic pulley.
2. The motor unit.
3. Nutation of the Sacrum.
4. Effects of immobilization on muscle structure.
5. Pad to pad prehension.
6. Circumductory gait.
7. Locked position of knee.
8. Flat foot.
9. Anterior pelvic tilt.
10. Reverse action.
