

[LM 6177]

FEBRUARY 2018

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. Describe the structure and function of thumb musculature and its role in hand function.
2. Describe the structure and function of vertebral column.

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

1. Effects of gravity on posture.
2. Characteristics of motor unit.
3. Nervous control of respiration.
4. Pelvic tilts.
5. Inversion and eversion of foot.
6. Functions of the arches.
7. Carrying angle and its significance.
8. Effects of exercise on respiration.

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

1. Gait.
2. Grasp.
3. Voluntary control.
4. Lumbricals.
5. Hyaline cartilage.
6. Reaction forces.
7. Properties of connective tissue.
8. Reflex arc.
9. Muscles of inspiration.
10. Angular velocity.

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