**[LK 6177]** FEBRUARY 2017 **Sub. Code: 6177**

**BOT EXAMINATION**
**SECOND YEAR**
**(New Regulations for the candidates admitted from 2014-2015 onwards)**
**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. Explain the biomechanics of the Wrist complex.
2. Describe in details the biomechanics of Shoulder joint abduction.

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

1. Types of displacement on a rigid segment.
2. What is carrying angle and why females have large carrying angle than men?
3. Explain the role of the structures that contribute to the anterior stability of the knee joint.
4. Differentiate between active and passive motion.
5. Describe a volar plate and its function.
6. Name the arches of the foot and importance of medical arch.
7. When and why is a cane used Ipsilaerally?
8. Antalgic gait.

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

1. Claw han
2. Oedema.
3. Double support.
4. Define moment arm.
5. Define Q angle.
6. Coxa Valga.
7. Ground Reaction Force.
8. What is optimal posture?
9. Khyphosis.
10. Hypertension.

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