

[LJ 6177]

AUGUST 2016

Sub. Code: 6177

SECOND YEAR BOT EXAMINATION
(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 in detail about the movement of Pelvis on the Femur with regard to Pelvic Tilts.
2. Define Joint? Mention and describe the various types of Synovial Joints.

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

1. Differentiate between kinetic and kinematics with examples.
2. Explain what is a plain and axis? Mention its types with examples?
3. What is Young's Modulus?
4. Describe the properties of the cardiac muscle.
5. What is reciprocal innervation?
6. What is artificial respiration?
7. Temporal components of gait.
8. What is a high arched foot?

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

1. Define Torque.
2. Define Anatomic pulley.
3. What is eccentric muscle contraction?
4. Define alpha motor neuron.
5. What is reverse action?
6. Function of intrinsic muscles of the hand
7. Functional position of the hand
8. Lateral pelvic tilting.
9. Open and closed kinematic chain.
10. Neuromuscular transmission.
