

[LL 6256]

AUGUST 2017

Sub. Code: 6256

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER II – BIOMECHANICS, APPLIED ANATOMY & KINESIOLOGY**

*Q.P. Code : 746256***Time: Three hours****Maximum: 100 Marks**

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

1. Discuss in detail the prehension activities of the Hand.
2. Discuss in detail the kinematic variables that describe the motion.

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

1. Describe coupled motions with two examples.
2. Intervertebral disc – its structure and function.
3. Pathomechanics of supraspinatus impingement.
4. Kinematic chains.
5. Mechanical stress and structural adaptation of femur.
6. Effects of gravity on posture.
7. Temporal and distance variables in gait.
8. Coxa valga and coxa vara.

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

1. Ataxic gait.
2. Nursemaid's elbow.
3. Extensor expansion.
4. Force couple.
5. Arthrokinematics.
6. Passive insufficiency of muscle.
7. Cadence.
8. Enthesis.
9. Layers of articular cartilage.
10. Phases of gait cycle.
