

[LQ 6256]

FEBRUARY 2020

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. Describe the structure and functions of Hip joint.
2. Analyze posture with respect to the optimal alignment and brief about postural deviations.

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

1. Describe the role of sternoclavicular joint in shoulder movements.
2. Describe the role of muscles that maintain the erect posture.
3. Describe the role of Cruciate ligaments in knee stability
4. Describe the intrinsic and extrinsic foot muscles.
5. Factors affecting the mobility of the lumbar vertebral column.
6. Describe scapula humeral rhythm and codman's paradox.
7. Describe the role of interossei and lumbricals at the MCP and IP joints.
8. Describe the functions of Tibiofemoral joint.

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

1. Cadence.
2. Anteversion and Retroversion.
3. Coracoacromial arch.
4. Equinus gait.
5. Types of hand grip.
6. Muscles of elevation of shoulder.
7. Components of force.
8. Synergist and fixator.
9. Ligaments of Bigelow.
10. Prehension.

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