February 2012

[LA 6256] **Sub. Code: 6256**

BACHELOR OF PHYSIOTHERAPY EXAMINATION
SECOND YEAR
PAPER II – BIOMECHANICS, APPLIED ANATOMY AND KINESIOLOGY

Q.P. Code: 746256

Time: Three Hours **Maximum: 100 marks**

Answer ALL questions

I. Elaborate on: **(2X20=40)**

1. Explain the structure configuration of hip joint in relation to weight bearing in unilateral and bilateral stance along with factors contributing for its stability.

2. Describe the normal curves of vertebral column and discuss the factors responsible for its mobility and stability.

II. Write notes on: **(8X5=40)**

1. Parameters of gait
2. Scapulo humeral rhythm
3. Determinants of gait
4. Bursae around knee
5. Talocalaneo navicular joint
6. Optimal posture
7. Reverse action
8. Pivot joint

III. Short Answers: **(10X2=20)**

1. Synergist
2. Angular Velocity
3. Concentric Exercise
4. Sacral vertebrae
5. Acromic clavicular joint
6. Lumbricals
7. Lordosis
8. Line of gravity
9. Second class lever
10. Law of inertia

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