

[LF 6256]

AUGUST 2014

Sub. Code: 6256

**SECOND YEAR/III & IV SEMESTER BPT EXAM  
PAPER II – BIOMECHANICS, APPLIED ANATOMY AND  
KINESIOLOGY**

*Q.P. Code : 746256***Time: Three Hours****Maximum: 100 marks****I. Elaborate on:****(2X20=40)**

1. What is Scapulohumeral rhythm? Explain the phases of scapulohumeral rhythm in detail with neat diagram.
2. Describe why using a cane on the side opposite to hip joint pain or weakness is more effective than using the cane on the same side.

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

1. What is “Q” angle of knee joint? How is it measured and what implications does it have for patellofemoral problems?
2. Explain the coupled movements of subtalar pronation and supination
3. Fixed support synergies
4. Explain stair gait cycle.
5. Explain the factors affecting muscle function
6. Explain the ligaments of Radioulnar joints
7. Explain about the extensor mechanism of wrist and hand
8. Explain Newton’s law of inertia with example.

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

1. What is Scaption?
2. Attachment of medial collateral ligament of knee joint
3. State the ligaments of Talonavicular joint
4. What is the normal postural sway?
5. Define moment arm
6. Give example for a trochoid joint
7. What are zygapophyseal joints?
8. What is lumbosacral angle?
9. What are the pelvic floor muscles?
10. What is Nutation and counternutation?

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