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: **(2 x 20 = 40)**

1. Describe in detail about the articulating structures kinematics of Tibiofemoral joint and related Pathomechnics.

2. Pathomechanics of gait.

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

1. Osteokinematics of hip joint
2. Winging of scapula
3. Locking and Unlocking of knee
4. Tensile forces
5. Centre of gravity and Line of gravity
6. Functions of hand
7. Talocalcaneo navicular joint
8. Trabecular system of hip joint

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

1. Moment arm
2. Fibrous joint
3. Slow-twitch oxidative fibres
4. Lumbar-pelvic rhythm
5. Ballistic movement
6. Agonist and antagonist
7. Law of inertia
8. Cross eyed patella
9. Volar wrist musculature
10. Junctura tendinae

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