

[LI 6256]

FEBRUARY 2016

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

1. Kinetics, Kinematics and Pathomechanics of lumbar spine.
2. Explain the structure, configuration of hip joint in relation to weight bearing in unilateral and bilateral stance with stability factors.

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

1. Tonic and Phasic muscles.
2. Metatarsal break.
3. Inversion and Eversion.
4. Osteokinematics and Arthrokinematics.
5. Lumbricals.
6. Active and Passive insufficiency.
7. Torque.
8. Factors affecting normal posture.

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

1. Pulleys.
2. Gait determinants.
3. Mechanical advantage.
4. Pes Planus.
5. Supinator twist.
6. Vertical steering muscles of Shoulder joint.
7. Fast-twitch fibres.
8. Cubitus Valgus and Cubitus Varus.
9. Force and Acceleration.
10. Load deformation curve.
