

August 2011**[KZ 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. LONG ESSAYS****(2X20=40)**

1. Describe in detail about Newton's laws of motion.
2. Discuss the biomechanical analysis of running gait versus walking.

II. SHORT NOTES**(8X5=40)**

1. Calculation of centre of gravity of the body.
2. Muscular weakness and atrophy
3. Closed chain motion of the elbow.
4. Functional position of the wrist.
5. Analyze placing the hand behind the head.
6. Balancing of the head and vertebral column.
7. Load-deformation curve.
8. Loading of the foot.

III. SHORT ANSWERS**(10X2=20)**

1. Ballistic movement.
2. Articularis genu.
3. Postural set.
4. Corset muscle.
5. Tarsal canal.
6. Common hip axis.
7. Kinesthesia and proprioception.
8. Pelvic balance.
9. Gluteus medius limp.
10. Patellar plicae.
