Seat No:	Enrollment No:

PARUL UNIVERSITY **Faculty of Physiotherapy** BPT, Examination, November-2017 Year: 2 Date: 01/12/2017 **Subject Code: 07101205** Time: 10:00 am to 12:00 pm Subject Name: Biomechanics and Kinesiology - II **Total Marks: 35 Instructions:** 1. All questions are mandatory. 2. Figures to the right indicate full marks. 3. Draw Diagram wherever necessary. 4. Write sections − A, sections − B on separate answer sheets. **SECTION - A Q.1** Write a note on the muscles and Ligaments of a vertebral column & their functions. (15)OR Q.1 Define Gait. Describe various phases of Gait cycle and write in detail about kinematics and (15)kinetics of Gait. Q.2 Write Short Notes (any two) (5 Marks Each) (10)(a) Pelvic tilt (b) Write in detail about Impetus. (c) Occupational Hazards **SECTION - B** Q.1 Multiple Choice Question (1 Mark Each) (10)Bucket handle movement of thorax involves 1. (a) Increase in lateral diameter (b) Increase in anterior –posterior diameter (c) Increase in posterior – lateral diameter (d) Increase in anterior – lateral diameter 2. Normal Lumbo-sacral angle is (a) 20 (b) 30 (c) 35 (d) 70 3. C2 cervical vertebrae is also called as (a) Axis (b) Pivot (c) Atlas (d) Median Atlanto axial joint Study of joint is called (a) Kinesiology (b) Biology (c) Arthrology (d) Anthropometry 5. The vertebral column is composed of Total how many intervertebral discs (a) 25 (b) 33 (c) 23 (d) 24 Which of the following muscle is used during quiet breathing? (a) Scalene (b) Pectoralis major (d) External intercostal (c) Internal intercostal The semispinalis capitis is rensposible for: (a) Lateral flexion of neck (b) Extension of neck (c) Flexion of neck (d) Rotation of neck Transverse abdominal muscle pulls rib cage (a) Cephalic (b) Caudally (c) Anteroposteriorly (d) Horizontally 9. The Quadratus lamborum is an important (a) Sagital plane stabilizer (b) Frontal plane stabilizer

(d) Oblique plane stabilizer

(b) 3 degree

(d) 7 degree

(c) Horizontal plane stabilizer

(a) 2 degree

(c) 5 degree

10. During first 20% of stance phase contralateral side drops about: