

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0921]

**SEPTEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 3902

**POST GRADUATE DIPLOMA IN BIOMECHANICS AND KINESIOLOGY IN SPORTS AND FITNESS
(From 2018-2019 onwards)
PAPER II – KINESIOLOGY
*Q.P. Code : 363902***

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss the biomechanical analysis of running gait versus walking.
2. Describe the normal curves of vertebral column and discuss the factors responsible for its mobility and stability.

II. Write Short Notes on:

(10x6 = 60)

1. Bursae around the knee.
2. Role of rotator cuff in shoulder movements & stability.
3. Passive and active insufficiency.
4. Menisci & its functions.
5. Explain Patella as an anatomic pulley.
6. Explain the ligaments of Radioulnar joints.
7. Angle of femoral torsion & its functions.
8. Planes and axis of joint movements.
9. Temporal and distance variables in gait.
10. Explain the structure & functions of plantar aponeurosis.
