

VINAYAKA MISSION'S RESEARCH FOUNDATION

(Deemed to be University), SALEM

M.P.T. DEGREE EXAMINATION – November 2021

Second Semester

BIO MECHANICS AND KINESIOLOGY

Time: Three hours

Maximum : 100 marks

I. Write short answers on:

(10 x 2 = 20)

1. Stress.
2. Tibia Vara.
3. Joint Congruence.
4. Kinetics.
5. COG.
6. Bi-articular muscles.
7. Carrying Angle.
8. Elasticity of muscle.
9. Pes planus.
10. Work hardening.

II. Write short notes on:

(8 x 5 = 40)

11. Properties of bone.
12. Osteokinematics.
13. Scapulohumeral rhythm.
14. Functional position of wrist and fingers (Hand).
15. Genu Valgum.
16. Axes and planes of the joint of the foot.
17. Claw toes.
18. Injury Prevention.

III. Write essays on:

(2 x 20 = 40)

19. Describe shoulder complex. Explain the static and dynamic stability of the shoulder.
20. Explain in detail about Hip complex and static stability of hip complex.