

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University), SALEM**

**M.P.T. DEGREE EXAMINATION – November 2021
Second Semester**

EXERCISE PHYSIOLOGY AND ELECTROPHYSIOLOGY

Time: Three hours

Maximum : 100 marks

I. Write short answers on: (10 x 2 = 20)

1. Stroke volume.
2. Energy balance.
3. Resting muscle potential.
4. Motor unit.
5. Fatigue.
6. Exercise electrocardiogram.
7. Blink reflex.
8. Tarsal tunnel syndrome.
9. Entrapment neuropathies.
10. Vo₂ max.

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

11. Regulation of circulation during exercises.
12. List the factors affecting sustained physical work.
13. Sliding filament theory.
14. Force velocity relationship.
15. Assessment of load exerted on specific muscle.
16. FITT principals.
17. F - Wave abnormalities.
18. Electro diagnosis in radiculopathy.

III. Write essays on: (2 x 20 = 40)

19. Explain the factors affecting physical performance in different altitudes.
20. List the general principles and detailed procedure of somatosensory evoked potentials.