

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

**M.P.T. DEGREE EXAMINATION – April 2019  
Third Semester**

**PHYSIOTHERAPEUTICS**

Time: Three hours

Maximum : 100 marks

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

1. Define mobilization.
2. Isokinetic exercise
3. Types of EMG needle electrodes
4. Deep vein thrombosis.
5. Define balance.
6. Therapeutic Bio feed back?
7. Friction massage
8. Grades of mobilization.
9. Define Pilates
10. Repetitive maximum.

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

11. Eccentric strength training.
12. Detail the various methods of ROM measurement for thoracic and lumbar spine.
13. Properties of fast and slow pain fibers.
14. Differentiate H reflex and F wave.
15. Principles of muscle energy techniques.
16. Evidence based clinical application of stretching.
17. Variations of Muscle Energy technique.
18. Mackenzie exercises.

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

19. Write in detail about the principles, indications, contra-indications, assessment and method of application of Maitland's manual therapy techniques.
20. Define evidence based practice, explain in detail about principles, factors, steps and components and add a note on evidence based clinical application of electrotherapeutics.