

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

**M.P.T. DEGREE EXAMINATION – November 2019**

**Third Semester**

**PHYSIOTHERAPEUTICS**

Time: Three hours

Maximum : 100 marks

**I. Write short answers on:**

**(10 x 2 = 20)**

1. Isotonic exercise.
2. Define manipulation.
3. Define kneading.
4. EMG?
5. Ante version?
6. Principles of Frenkles exercise?
7. Deep friction massage?
8. Define mechanical dysfunction.
9. Need for evidence based practice.
10. Ranges of muscle work.

**II. Write short notes on:**

**(8 x 5 = 40)**

11. Dysfunction syndrome.
12. Centralization and peripheralization.
13. Fwave.
14. Closed pack position and loose pack position of joint.
15. Mckenzie back care programme.
16. Barrier concepts.
17. Lower limb tension test.
18. Fryett's law for spinal motion analysis.

**III. Write essays on:**

**(2 x 20 = 40)**

19. Describe the principles of mobilization of spine by mulligan therapy  
Compare Maitland Vs Mulligan mobilization.
20. Describe in detail the principles, biomechanics, normal responses,  
sensitizing tests, application methods, indications and variations of the  
best tests of neural tension testing.