

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

**M.P.T. DEGREE EXAMINATION – November 2018  
First Semester**

**PHYSICAL MODALITIES AND PT PRACTICE**

Time: Three hours

Maximum : 100 marks

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

1. Hydrostatic pressure
2. Pain – spasm- pain cycle
3. Saltatory conduction
4. Controlled cold compression units
5. Fluidotherapy
6. Phonophoresis
7. Interferential current
8. UVR
9. Hubbard tank
10. Peripheral sensitization

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

11. Differentiate between H – reflex and F wave
12. Motor unit action potential
13. Functional electrical stimulation
14. Intermittent pneumatic compression pump
15. Clinical application of ultrasound therapy
16. Properties of Water
17. Specificity and pattern theory
18. Stretch reflex

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

19. Define Laser, production of Ruby laser, physiological therapeutic effects, indication, contra indication, techniques of evidence based clinical application of Laser.
20. Define pain. Explain in detail about the theories of pain. Rationally the application of various physiotherapy modality appropriate in managing the chronic pain.

\*\*\*\*\*