

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

**B.Sc. (NEUROSCIENCE TECHNOLOGY) DEGREE EXAMINATION
March 2019
Third Year**

**APPLIED TECHNOLOGY IV: APPLIED NERVE
CONDUCTIONS, ELECTROMYOGRAPHY AND EVOKED
POTENTIALS**

Time: Three hours

Maximum: 75 marks

I. Write an Essay on any ONE of the following: (1 x 20 = 20)

1. What is Electromyography? Describe the principles of needle Electromyography.
2. Explain – Trauma, nervous system and nerve conduction in cranial neuropathies.

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. Explain – Entrapment Neuropathies and Nerve conduction facial palsy.
4. Phrenic Nerve stimulation – Techniques and utility.
5. Explain EMG in myopathy and Neuropathy.
6. Explain plexopathy and radiculopathy.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Classification of Neuropathy in diabetes mellitus.
8. Erb's point stimulation – Technique and utility.
9. Martin – Gruber anastomosis.
10. Tilt Table testing.
11. Axonopathy.
12. Single fiber EMG.
13. Needle Electromyography of vastus lateralis.
14. Insertional activity in Electromyography.
15. Femoral Nerve Conduction.
16. Macro EMG.