

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0424]

APRIL 2024

Sub. Code: 2521

B.Sc. NEURO ELECTRO PHYSIOLOGY
THIRD YEAR – (Regulations 2012-2013 & 2018-2019 onwards)
PAPER I – NERVE CONDUCTION STUDIES AND ELECTROMYOGRAPHY
Q.P. Code: 802521

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Nerve conduction study in Guillain Barre Syndrome.
2. What is Electromyography? Describe the principles of needle Electromyography.
3. Name a disorder of the Anterior Horn Cells and describe its Electrophysiological evaluation.

II. Write notes on:

(8 x 5 = 40)

1. What is H reflex? Draw diagram of H reflex when stimulating tibial nerve.
2. Repetitive nerve stimulation at slow and fast frequencies.
3. Tilt table testing.
4. Positive sharp waves.
5. Nerve conduction study of median nerve entrapment.
6. Radial nerve conduction study.
7. Physiological and non physiological factors affecting nerve conduction.
8. Applications of Electromyography.

III. Short answers on:

(10 x 3 = 30)

1. Blink reflex.
2. EMG of Abductor pollicis brevis.
3. Erb's point stimulation – technique and utility.
4. Facial nerve conduction with diagram of stimulator and electrode positions.
5. Types of needle electrodes in Electromyography.
6. Sympathetic skin response.
7. What are myotonic discharges?
8. Stimulation of cervical roots in nerve conduction studies.
9. Sural Nerve Stimulation.
10. Neurogenic patterns in EMG.
