

B.Sc. NEURO ELECTRO PHYSIOLOGY

THIRD YEAR

PAPER I – NERVE CONDUCTION STUDIES AND ELECTROMYOGRAPHY

Q.P. Code : 802521

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Electrodiagnostic approach to a patient with suspected muscle disease.
2. What are the physiological and non-physiological factors affecting nerve conduction studies?
3. Electrodiagnostic approach to a patient presenting with foot drop.

II. Write notes on:

(8 x 5 = 40)

1. Fibrillation potentials and positive sharp waves in electromyography.
2. Electrodiagnosis of C8- T1 radiculopathy.
3. What is H reflex? Draw diagram of H reflex when stimulating tibial nerve?
4. What is the importance of filters in Neuroelectrophysiology?
5. What do you understand by compound muscle action potential (CMAP)?
6. Describe principle of recruitment on electromyography.
7. Inching technique for evaluation of median nerve at wrist.
8. Repetitive nerve stimulation at slow and fast frequencies.

III. Short Answers on:

(10 x 3 = 30)

1. Laboratory tests for evaluation of orthostatic hypotension.
2. Insertional activity in electromyography.
3. Diagram for needle insertion for tibialis anterior.
4. Accessory deep peroneal nerve anomaly and effect on lower limb nerve conduction study.
5. What do you understand by temporal dispersion?
6. Classification of neuropathy in diabetes mellitus.
7. What is the effect of temperature on nerve conduction study?
8. What are the symptoms and signs of ulnar neuropathy?
9. Erb's point stimulation – technique and utility.
10. Facial nerve conduction with diagram of stimulator and electrode positions.
