

[LF 0212]

AUGUST 2014

Sub.Code :2511

**B.Sc. NEURO ELECTROPHYSIOLOGY
SECOND YEAR
PAPER I – ELECTRO ENCEPHALO GRAPH**

Q.P. Code : 802511

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3x10=30)

1. Mention the criteria of West syndrome and describe its clinical features along with EEG findings.
2. Write the international 10-20 system of electrode placements of standard EEG with neat diagram.
3. What are artefacts? List the types of artefacts that you see in the laboratory and explain the methods of elimination.

II. Write notes on:

(8x5=40)

1. Electroencephalography in liver or renal disease.
2. EEG in absence seizures.
3. Benign Rolandic epilepsy.
4. Amplifiers in EEG.
5. Non-convulsive status epilepticus.
6. What does the magnitude of the hyperventilation response depend on? How long must a person do hyperventilation for? Why is the post hyperventilation response important?
7. What are the three main types of response seen in photic stimulation? Which types of seizures are most commonly activated by photic stimulation?
8. Phase reversals and equipotential zone.

III. Short Answers on:

(10x3=30)

1. Hand Luder.
2. Posterior dominant rhythm.
3. Trace alternant.
4. Special electrodes
5. EEG in herpes simplex encephalitis.
6. Contraindications to hyperventilation.
7. Glossokinetic artefacts.
8. EEG in brain death.
9. Limitations of EEG in intensive care unit.
10. Multifocal spikes on EEG.
