

[LH 0815]

AUGUST 2015

Sub.Code :2522

**B.Sc. NEURO ELECTRO PHYSIOLOGY
THIRD YEAR**

**PAPER II – POLYSOMNOGRAPHY, TRANSCRANIAL
MAGNETIC STIMULATION, AUTONOMIC LAB,
INTRAOPERATIVE MONITORING**

Q.P. Code : 802522

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the organisation of normal sleep.
2. Intraoperative monitoring of acoustic nerve and brainstem auditory pathways.
3. Indications of intraoperative electrophysiological monitoring.

II. Write notes on:

(8 x 5 = 40)

1. Indications of autonomic nervous system testing.
2. Role of transcranial magnetic stimulation in stroke rehabilitation.
3. Effects of anaesthetics on evoked potentials and EEG.
4. Stimulation Protocols in transcranial magnetic stimulation.
5. Patient preparation before autonomic nervous system testing.
6. Advantages, limitations, and complications of Electrocardiography.
7. Write about the techniques and uses of sympathetic skin response.
8. Write about obstructive sleep apnea.

III. Short Answers on:

(10 x 3 = 30)

1. Effect of aging on sleep architecture.
2. Write in brief about maintenance of wakefulness test.
3. Intra operative spinal root monitoring.
4. Write in brief about transcranial direct current stimulation.
5. Write about parasomnias.
6. Postural Orthostatic Tachycardia Syndrome.
7. Utility of transcranial magnetic stimulation in chronic pain.
8. HR Variability with Respiration.
9. Write about Insomnia.
10. Blood pressure variation with changes in posture.
