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. Mention the common neurological disorders in which polysomnography is used and describe how polysomnography is done?
3. Mention disorders where Transcranial Magnetic stimulation can be helpful. What is the principals and physiological basis of this treatment?

II. Write notes on: **(8 x 5 = 40)**

1. Effects of anaesthetics on evoked potentials and EEG.
2. Advantages, limitations and complications of Electrocorticography.
3. Levels of sleep structure.
4. Precautions to be taken during IOM.
5. Narcolepsy.
6. Intraoperative monitoring in Cerebello pontine angle tumour surgery.
7. Brain mapping.
8. Phases in the valsalva response.

III. Short answers on: **(10 x 3 = 30)**

1. Beat to beat variability.
2. Blood pressure variation with changes in posture.
3. Daytime somnolence.
4. Stages of sleep.
5. Circadian rhythm.
6. Jet lag.
7. Central sleep apnoea.
8. Sympathetic skin response.
9. Effect of aging on sleep architecture.
10. Median sleep latency test.

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