

**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. Anatomy and disorders of sleep.
2. Polysomnography, actigraphy and MSLT.
3. Intra-operative monitoring, instrumentation, techniques and preparation.

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

1. Motor evoked potentials application and its uses.
2. Parasomnias.
3. Levels of sleep structure.
4. Sleep disorders in dementia and movement disorders.
5. Precautions to be taken during IOM.
6. Central and obstructive sleep apnoea.
7. Stages of sleep.
8. Sleep disorders in elderly.

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

1. Effect of aging on sleep architecture.
2. Write in brief about maintenance of wakefulness test (MWT).
3. Intra operative spinal root monitoring.
4. Write in brief about transcranial direct current stimulation.
5. Narcolepsy.
6. Restless leg syndrome.
7. Utility of actigraphy.
8. HR Variability with Respiration.
9. Write about titration.
10. Bipap/Cpap.

\*\*\*\*\*