

**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 basis of obstructive sleep apnoea and how polysomnography is used for its diagnosis.
2. Cardiac parasympathetic function tests and mention neurological diseases in which there can be autonomic dysfunction?
3. Mention the various Neurosurgical procedures in which Intraoperative monitoring can be used and describe the procedure for monitoring a Cerebello pontine angle tumour surgery?

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

1. Parasomnias.
2. REM Sleep disorders.
3. Techniques of measuring central motor conduction time.
4. Motor evoked potential.
5. Mention disorders where Transcranial Magnetic stimulation can be helpful.
6. What D Waves in Transcranial Magnetic stimulation?
7. Central sleep apnoea.
8. Brain mapping.

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

1. Phases in the valsalva response.
2. Beat to beat variability.
3. Motor threshold in Transcranial Magnetic stimulation.
4. Neurotonic discharge in Intraoperative monitoring.
5. Tilt table test.
6. Narcolepsy.
7. Sympathetic skin response.
8. Daytime somnolence.
9. Stages of sleep.
10. Coils used in Transcranial Magnetic stimulation.

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