

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LR 1220]

**DECEMBER 2020
(AUGUST 2020 EXAM SESSION)**

Sub. Code: 2522

**BACHELOR IN NEURO ELECTRO PHYSIOLOGY
THIRD YEAR – (Regulation from 2012-2013)
PAPER II – POLYSOMNOGRAPHY, TRANSCRANIAL MAGNETIC
STIMULATION, AUTONOMIC LAB, INTRAOPERATIVE MONITORING
Q.P. Code: 802522**

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Organisation of Normal Sleep.
2. Describe the basis of obstructive Sleep Apnoea and how Polysomnography is used for it's diagnosis.
3. Mention the various Neurosurgical procedures in which Intraoperative monitoring can be used and describe the procedure for monitoring a Conus Medullary lesion Central Sleep Apnoea surgery.

II. Write notes on:

(8 x 5 = 40)

1. Patient preparation before Autonomic Nervous System testing.
2. HR Variability with Respiration.
3. Restless leg syndrome.
4. Median sleep latency test.
5. Different coils used in Transcranial Magnetic stimulation.
6. Bedside autonomic function testing.
7. Central conduction time in Transcranial Magnetic stimulation.
8. Brain mapping.

III. Short answers on:

(10 x 3 = 30)

1. Write about Insomnia.
2. Postural Orthostatic Tachycardia Syndrome.
3. Narcolepsy.
4. Beat to beat variability.
5. Circadian rhythm.
6. Intraoperative monitoring in aneurysm surgeries.
7. Sympathetic skin response.
8. What are D Waves in Transcranial Magnetic stimulation?
9. Bipap/Cpap.
10. Intra operative Spinal Root Monitoring.
