

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)**

**B.Sc. (NEUROSCIENCE TECHNOLOGY) DEGREE EXAMINATION
March 2019
Third Year**

**APPLIED TECHNOLOGY III – APPLIED
ELECTROENCEPHALOGRAPHY (EEG)**

Time: Three hours

Maximum: 75 marks

I. Write an Essay on any ONE of the following: (1 x 20 = 20)

1. What are the artifacts? List the type of artifacts that you see in the laboratory and explain the methods of elimination and explain EEG artifacts.
2. Explain EEG metabolic disease of brain and EEG changes to drugs.

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. Define – Spike detection and brain mapping.
4. Long term EEG monitoring.
5. Amplifiers in EEG and EEG in head trauma.
6. Phase reversals and equipotential zone.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Triphasic waves.
8. Lennox – Gastaut Syndrome.
9. Begin Rolandic Epilepsy.
10. What are the three main types of seizures that are most commonly activated by photic stimulation?
11. Write a note on beta rhythm.
12. Normal EEG variants.
13. Explain Magneto Encephalography.
14. Define Normal awake EEG.
15. EEG in Brain death and limitations of EEG.
16. Define Alpha range and define syncope.