**R. EEG T. Exam Outline**

**Fundamental Concepts & Clinical Applications**

**2018**

1. Pre-Study/Patient Preparation
2. Elements of history/communication, establishing rapport
3. Medical/EEG terminology; related diagnostic procedures
4. Common medications/treatments
5. HIPAA
6. Neurologic disorders

1. Neuropathology (tumors, encephalopathy, vascular, etc.)

2. Seizures (classification, clinical manifestations, syndromes, etc.)

1. Neuroanatomy/Neurophysiology
2. Electrode properties, placement/10-20 System, special electrodes
3. Obtaining acceptable impedances
4. Infection control (patients, equipment, electrodes, etc.)
5. Allergies and sensitivities
6. Related SDS/OSHA standards
7. Patient safety/Electrical safety
8. ABRET Code of Ethics
9. Performing the Study
10. Documentation
11. Monitoring techniques (age specific, state specific)
12. Recording strategies (montages, parameter changes)
13. Digital instrumentation (filters, etc.)
14. Effects of medications on the recording
15. Activation techniques/contraindications to activation
16. Identifying, eliminating/monitoring artifacts
17. Troubleshooting
18. Managing clinical events
19. Sleep stages and patterns; sleep disorders
20. Correlation of history with EEG patterns/clinical correlation
21. Normal variants
22. Normal/Abnormal adult EEG
23. Normal/abnormal pediatric EEG
24. Normal/abnormal neonatal EEG
25. ACNS Guidelines and terminology
26. Electrographic correlates to clinical/non-clinical entities
27. Localization and polarity
28. Measurement of frequency, voltage and duration
29. Waveform analysis and identification/Pattern description
30. ECI recordings and Guidelines

8/29/16
10/14/17