

ABRET 2013 Computer-Based Examination

Part I: FUNDAMENTAL CONCEPTS

(200 Questions)

I. Patient History 10%

- A. Elements of a history
- B. Medical/EEG terminology
- C. Common medications
- D. Neurologic examination
- E. Diagnostic procedures (MRI, PET, etc)
- F. Knowledge of HIPAA

II. Common neurologic disorders 25%

- A. CNS infections
- B. Head injury
- C. Psychiatric disorders
- D. Seizures and classifications
- E. Toxic and metabolic disorders
- F. Tumors
- G. Vascular disease
- H. Degenerative diseases
- I. Headache
- J. Neuropathology
- K. Sleep and consciousness
- L. Basic neuroanatomy
- M. Basic neurophysiology

III. Patient Preparation and Care 25%

- A. Electrode placement
- B. International 10-20 system
- C. Techniques for applying electrodes
- D. Electrode properties
- E. Obtaining acceptable impedances
- F. Related MSDS/OSHA standards
- G. Patient safety
- H. Infection control
- I. ABRET Code of Ethics

IV. Basic EEG Concepts 30%

- A. Polarity and localization
- B. Basic recording strategies (montages, parameter changes)
- C. Sensitivity and filter/time constant settings
- D. Documentation
- E. Waveform identification (normal, abnormal; wake & sleep)
- F. Activation procedures
- G. ACNS Guidelines
- H. Artifacts and monitoring
- I. Waveform calculations (amplitude, voltage, duration, frequency, paper speed)

V. Instrumentation 10%

- A. Troubleshooting
- B. Electrical safety
- C. Characteristics of the differential amplifier
- D. Digital instrumentation

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