

## Week 4 Pre-Lab

BIOE 320 Systems Physiology Laboratory

**Student Name:**

**Total Grade:** /10

1. Define/describe the amplitude and frequency of a regular, periodic waveform in mathematical or graphical form.
2. Why of the two following factors is the main determinant of brain wave intensity (amplitude)?
  - Neuron and fiber synchrony
  - Total electrical activity
3. Compare and contrast synchrony and alpha block.
4. Besides increased signal to noise ratio, what is another advantage of placing multiple EEG leads on the scalp?
5. Why is standardization of the placement of clinical EEG leads necessary?