

# EMC 351

## Review for Written Exam #1

### Cardiac A&P

- layers of heart
- heart valves
- circulation of blood through heart
- diastole/systole
- preload/afterload/cardiac output
- Frank-Starling Law of the Heart

### Electrophysiology

- myocardial vs. pacemaker cells
- properties of myocardial and pacemaker cells
- depolarization/repolarization/polarization
- action potential phases (0-4)
- refractory periods
- conduction system of the heart
- causes of ectopy/dysrhythmias
- autonomic nervous system
  - sympathetic vs. parasympathetic
  - alpha, beta, and dopaminergic responses

### Monitoring

- frontal plane leads
- horizontal plane leads
- standard limb leads
- modified chest leads
- unipolar vs. bipolar leads
- augmented limb leads
- Einthoven's triangle
- causes of artifact

### Waves and Intervals

- be familiar with what each wave and interval represents
- be familiar with terminology
- be familiar with the normal characteristics for each

### Analyzing a Rhythm Strip

- six second method
- large box method
- small box method
- sequence method
- be familiar with the steps of analyzing a rhythm strip