

Study Guide – Chapter 19

The Circulatory System: Heart

- I. Know about, understand, and be able to explain the cardiac conduction system.
- II. Know what the terms *systole* and *diastole* mean. *Systole is Contraction while Diastole is Relaxation of the heart.*
- III. Understand and be able to explain why cells in the SA node have an inherent rhythmicity to the production of electrical signals. *They are Autorhythmic*
- IV. Know the steps involved when action potentials occur in cardiac muscle cells. Know the significance of the calcium plateau and the long refractory period. *The long refractory period is for a longer contraction as opposed to a quick twitch and calcium causes increased strength of contraction. Steps are in picture.*
- V. Electrocardiogram – Know what the different parts of the ECG are called, and know how they relate to the activity of the heart. *P wave-Atria Contract , QRS wave-ventricles contract , T wave-relaxation period*
- VI. Know what an arrhythmia is, and know about ventricular fibrillations. *Any deviation from the regular rhythm of the heartbeat by the SA node. These include ventricular fibrillations which are uncontrolled, uncoordinated contractions of the ventricles.*
- VII. Cardiac Output
 - A. Know what cardiac output is, and know the two factors can affect cardiac output. *The amount of blood ejected by each ventricle in one min. As heart rate increases, stroke volume decreases. Cardiac output is not constant.*
 - B. Know what bradycardia and tachycardia are. *Brady is slow, tachy is fast.*
 - C. Know some factors that might affect heart rate. *Altered by ANS, response to information received from baroreceptors and chemoreceptors. So oxygen levels, CO₂ and PH.*
 - D. Know the Frank-Starling law. *Stroke volume is proportional to end-diastolic volume. The Ventricles will eject as much blood as they receive.*
 - E. Know some factors that might affect the strength of contractions (and therefore stroke volume). *Contractility, or contraction strength, calcium increases strength, epinephrine and norephrine both increase heart rate and the strength of each contraction.*
- XVIII. Remember to read Deeper Insight 19.1, Deeper Insight 19.2, and Deeper Insight 19.4 as you prepare for the exam.

Chapter 19 Study Guide Answers

RJ Alexander



Chapter 19 Study Guide Answers:

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