# Cardiovascular System (Part II) Study Guide

1. Intrinsic Conduction System of the Heart pp. 354-357
   * Figure 11.5 – The intrinsic conduction system of the heart
   * Sinoatrial (SA) node – “The Pacemaker”
   * Atrioventricular (AV) node
   * AV Bundle, bundle branches, Purkinje fibers

1. Electrocardiography (ECG/EKG) p. 356
   * P wave = Atria contracting
   * QRS complex = Ventricles contracting, Atria relaxing
   * T wave = Ventricles relaxing
2. Cardiac Cycle and Heart Sounds pp. 357-358
   * Systole: when the ventricles are contracting
   * Diastole: when the ventricles are relaxing
   * Heart sounds
     + “Lub” is closing of the AV valves
     + “Dub” is closing of the aortic and pulmonic valves
3. Cardiac Output p. 358
   * Cardiac Output (ml/min) = Heart Rate (beats/min) x Stroke Volume (ml/beat)
4. Blood Pressure pp. 372-374
   * Blood Pressure (BP) = Cardiac Output (CO) x Peripheral Resistance (PR)
   * Figure 11.17 – Blood pressure in arteries vs. veins
   * Figure 11.18 – Measuring your blood pressure
5. Blood vessels pp. 360-362
   * Arteries, arterioles, capillaries, venules, veins
   * Figure 11.8 – Structure of blood vessels
   * Structural differences between arteries, veins, and capillaries
   * Fig. 11.9 – The muscular pump