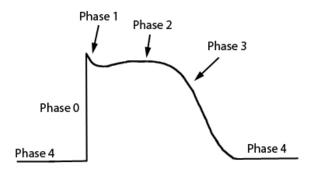
BIOL 2402 A&P II Dr. Weis	Cardiology Mini Worksheet			 Fime:	
A. Give the cardiac output (CO following selected organs:					
Formula: CO = Amount		Amount of body blood:	t of body blood:		
% distribution for : Cardiac Mu	iscle GI	Kidneys	Brain	Sk. Muscle	
B. Define EKG (ECG); Draw a no	ormal lead II EKG, label i	the waveforms seen and	explain their me	eaning.	
C. Name the parts of the cardia	ac conduction system, t	heir location, and give th	eir rate of disch	arge (depolarization)	
D. Explain how both of the ANS divisions regulate the heart by					
a. Source or origin of the ANS neurons that supply the heart					
b. Specific Innervation sites on the heart					
c. Neurotransmitters used and their receptors					
d. Specific heart effects for each ANS division					
E. Draw with labels the comple	te detailed structure of	f an intercalated disc.			
F. Name the layers of the heart	: wall and describe (or c	draw with labels) their <i>hi</i> s	stological structi	ure	

G. Name the four heart valves, give their location, and relate their function to blood flow and heart sounds heard in the cardiac cycle.

- H. Completely and accurately define the following terms related to the cardiac cycle and heart function:
 - a. diastole _____
 - b. systole _____
 - c. isovolumetric _____
 - d. chronotropic _____
 - e. dromotropic _____
 - f. inotropic _____
 - g. calsequestrin ______
- I. Explain what causes the following heart sounds
 - a. S1 _____
 - b. S2 _____
 - c. S3 ______
- J. Label the following electrical graph for cardiac muscle using the **ions** involved during all phases:



- K. Name two fetal bypass structures related to the circulatory system and what they are bypassing.
 - a._____
 - b._____
- L. Regarding endocrine controls
 - a. Name a hormone from the heart and its effects ______
 - b. Name three hormones that target the heart and their effects

i _____

ii_____

iii ______

- M. Name four different problems of the heart related to these etiological areas/structures
 - a. myocardium _____
 - b. valves ______
 - c. blood vessels _____
 - d. congenital _____