**Exam 1 Part B. Your Name:**

**Please TYPE your answers in an MS Word Document. When complete send your exam answers as an ATTACHMENT to an Email to Dr. Kravitz. Exam 1 Part B is due Friday August 28 by 12midnight. No late papers accepted. Also, academic honesty is totally active here. Please do your OWN work! Use AS MUCH SPACE as you wish in your answers!**

*This EXAM is open note. Please use WEB Page to guide your answers.*

**A. Explain the 3 causes for the conduction delay at the AV Node? (9 pts)**

1.

2.

3.

**B. Name and Explain contractile cell Depolarization and Repolarization timeline of the following phases; be very specific and make sure you state Fast or Slow channels when involved. (20 pts)**

**Phase 4:**

**Phase 0:**

**Phase 1:**

**Phase 2:**

**Phase 3:**

**C. Please answer the following questions (44pts)**

\_\_\_\_\_\_\_\_\_\_\_\_1. A depolarization charge traveling towards a POSITIVE electrode will deflect which way?

\_\_\_\_\_\_\_\_\_\_\_\_2. A depolarization charge traveling towards a NEGATIVE electrode will deflect which way?

\_\_\_\_\_\_\_\_\_\_\_\_3. A depolarization charge traveling PERPENDICULAR to an electrode will deflect which way?

\_\_\_\_\_\_\_\_\_\_\_\_4. A deflection will have its maximal voltage when it is: Choose one of the following. (perpendicular, parallel, at 45 degree angle) to the lead

\_\_\_\_\_\_\_\_\_\_\_\_5. Name all EKG leads that are BIPOLAR

\_\_\_\_\_\_\_\_\_\_\_\_6. Name all EKG leads that are UNIPOLAR

\_\_\_\_\_\_\_\_\_\_\_\_7. What plane are the LIMB leads in?

\_\_\_\_\_\_\_\_\_\_\_\_8. What plane are the PRECORDIAL leads in?

\_\_\_\_\_\_\_\_\_\_\_\_9. Explain the difference between EFFLUX and INFLUX?

\_\_\_\_\_\_\_\_\_\_\_\_10. What are he two characteristics about Vectors that Dr. Kravitz discussed in the video lecture?

\_\_\_\_\_\_\_\_\_\_\_\_11. Baseline on an EKG is referred to as what?

**D. Draw/Label Einthoven’s Triangle correctly. Please take a picture drawing with your mobile device and input into the document or attach to your email when you send your exam (12 pts)**

**E. Draw/Label the Standard Limb Leads. Please take a picture drawing with your mobile device and input into the document or attach to your email when you send your exam. (15 pts)**

**F. Draw/Label the Augment Limb Leads. Please take a picture drawing with your mobile device and input into the document or attach to your email when you send your exam. (15 pts)**

**G. Correctly identify the QRS on the illustration on the next page. (32 pts)**

1.

2.

3.

4.

5.

6.

7.

8.



**End of Exam.**