**Exam 1 Part C. 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 C is due Friday September 4 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 EKG WEB Page and YOUTUBE videos to guide your answers.*

**A. 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:**

**B. On all Four Hexaxial Systems, Label the Hexaxial Reference System and then write in the standard and augment limb leads. Please take a picture of drawing with your mobile device and input into the document or attach to your email when you send your exam. (60 pts)**



**C. 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)**

**D. Please answer the following questions (12 pts)**

\_\_\_\_\_\_\_\_\_\_\_\_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?

**E. From the YOUTUBE video on R Wave Transition, identify the R Wave Transition Lead and classify it for EKG #1-9. (45 pts)**

**1) R wave Transition and Classification?**

**2) R wave Transition and Classification?**

**3) R wave Transition and Classification?**

**4) R wave Transition and Classification?**

**5) R wave Transition and Classification?**

**6) R wave Transition and Classification?**

**7) R wave Transition and Classification?**

**8) R wave Transition and Classification?**

**9) R wave Transition and Classification?**

**F. What EKG pioneer first identified the precordial leads? (5 pts)**

**1.**

**G. Please label the Hexaxial Reference System and all the Limb Leads on both diagrams below. Now, show the classification for the Mean QRS Axis on both diagrams. Please take a picture drawing with your mobile device and input into the document or attach to your email when you send your exam (30pts)**

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**H. Write out the Classifications for the Mean QRS Axis in degrees. (I’ve done the first one for you). (30 pts) Make sure you show the POSITIVE and NEGATIVE signs.**

**1. Normal axis: -30 degrees to +100 degrees**

**2. Right axis deviation?**

**3. Left axis deviation?**

**4. Extreme right axis deviation?**

**I. Identify the Mean QRS and Classify from the Mean QRS Axis from the YOUTUBE video on Mean QRS axis. I’ve done the Example for you below (110 pts)**

**Example: Mean QRS and Degrees? Normal, +60 degrees**

**Now work the rest by following the YOUTUBE video**

**1. Mean QRS and Degrees?**

**2. Mean QRS and Degrees?**

**3. Mean QRS and Degrees?**

**4. Mean QRS and Degrees?**

**5. Mean QRS and Degrees?**

**6. Mean QRS and Degrees?**

**7. Mean QRS and Degrees?**

**8. Mean QRS and Degrees?**

**9. Mean QRS and Degrees?**

**10. Mean QRS and Degrees?**

**11. Mean QRS and Degrees?**

**End of Exam**