PHAR 750 Quiz 1 - B

PHAR 750: Biopharmaceutics/Pharmacokinetics  Name: Key
October 14, 2009  Total 25 points

The following questions MAY HAVE more than one answer. You may choose from A, B, C, D, E, or F below. Please read carefully. (2 points each)

1. Which of the following graphs below represents an EXTRAVASCULAR DOSE? BCE

2. Which of the following graphs below represents an INTRAVENOUS DOSE? AD

3. Which of the following graphs below is ZERO-order? B

4. Which of the following graphs below represents a ONE-COMPARTMENT MODEL? AE

5. Which of the following graphs below represents a TWO-COMPARTMENT MODEL? CD

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For the following answers, you will need to use the above graphs and give YOUR BEST ESTIMATE

6. In GRAPH C above, what is the $C_{\text{max}}$ and $T_{\text{max}}$ (2 pts)?

7. In GRAPH A above, what is the initial concentration, $C_p^0$ (1.5 pts)?

8. In GRAPH D above, what is the initial concentration, $C_p^0$ (1.5 pts)?

9. In GRAPH E above, what is the $C_{\text{max}}$ and $T_{\text{max}}$ (2 pts)?
Use the above choices A through K to answer the following questions. Each question is worth 2 points. Please CIRCLE your final answers.

10. What is the equation for the elimination $t_{1/2}$ for the data in Figure A? $J$

11. Which equation(s) describes Figure A? $I + J$

12. What is the equation for the elimination $t_{1/2}$ for the data in Figure B? $H$

13. Which equation(s) describes Figure B? $E, G, H$