Nama: Nurwinda yullana savitri

Prod1: si farmasi

NIM: 19.0605.0001

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b. Berapakan waktu paro eliminasi antibiotic

Jam	kadar
2	10
6	5

$$k = Lnd2 - Lnd1$$

$$t6 - t2$$

$$= \frac{11609 - 21302}{6 - 2}$$

$$= -0.1693$$

$$T 1/2 = \frac{0.693}{0.1173} = 4.005$$

C. Berapakan kadar obat dalam Plasma t=0
Jawab:

| Linet=Linex=k

$$DIV = 2mg$$
  
 $t1 = 2Jam$   
 $CI = 10mI$ 

Hitunglah parameter lain yang diperlukan untuk Menerangkan Farmakokinetik antibiotik Jawab:

a. 
$$Slope = \frac{-k}{21303}$$

$$01077 = \frac{-k}{21303}$$

$$k = 01077 \times 21303$$

$$= 0.1117 \text{ Jam}$$

b. Intercept 
$$y = log Co$$
  
 $1155 = log Co$   
 $co = 14018 ug/m1$ 

$$Vd = \frac{div}{co} = \frac{5000}{14018} = 3155, 11ML$$

$$AUC = \frac{CO}{K} = \frac{14018}{01177} = 795,48 ug/Jam$$

1001 - 5001 = 1

300 all = 5000.0 = 511.1

Malana - Hot lot

$$CI = \frac{DIV}{AUC} = \frac{5000}{795148} = \frac{61285}{795148} m_1 / Jan$$

$$t_{1/2} = 0.693 = 3.4915 = 4 \text{ Jam}$$

2.a. persamaan

2 b. nitungian semua parameter yang diperilikan

a. Slope = 
$$\frac{-k}{2i303}$$
  
 $01074x = \frac{-k}{2i303}$   
=  $01074 \times 2i303$   
=  $01170 \text{ Jam}$ 

b. Intercept y = log Co

$$Vd = \frac{DIV}{CO} = \frac{5000}{14018} = 3155, 11 mi$$

$$AUC = \frac{CO}{K} = \frac{14018}{01170} = 828,23$$
 49/m1

$$CI = \frac{DIV}{AUC} = \frac{5000}{828,23} = 61036 \text{ m1/Jam}$$

$$T1/2 = \frac{0.693}{0.170} = 4.076 = 4.076$$

c. jira nilai ambang efek 115 ug/mi. berapa durasi efek obat Jawab.

$$CP = 115 \text{ ug/ml} \quad t = ?$$
 $100 \text{ cp} = \frac{-kt}{2.303} * + 100 \text{ cp}^{\circ}$ 

$$109115 = \frac{011702}{2.303} + 8.5743$$

$$011760 = \frac{011702}{2.303} + 019331$$

$$\frac{0,1702}{2,303} = \frac{0,9331 - 0,1760}{6,175711}$$

$$CP = 115 \text{ ug/ml}$$
  $t = ? | t = 017571 \times 2,303$   
 $cq cp = \frac{-kt}{2.303} * + 109 cp^{\circ}$ 

p. Berapa lama wartu yang diperluran untur memgeliminasi 99127. Obah Jawah:

$$CP^0 = \frac{018}{100} \times 8.5743 = 0.0685944$$

$$100) CP = \frac{-k+}{21303} + 100) CP$$

$$\frac{111637}{21303} = 011702 \times 1018362$$

$$\frac{011702}{21303} = 018362 + 111637$$

$$t = 2 \times 2.303$$
 $1/1702$ 

e. posis dinaikan 2x

$$1009 \text{ CP} = \frac{-kt}{2.303} \times 109 \text{ CP}^{0}$$

$$1009 2 = \frac{011702 \times 1}{2.303} - 13718$$

$$013010 = \frac{011702 \times t}{2.303} \times 13.7188$$

$$t = \frac{13.4178}{0.11702} \times 2.303$$

$$= 181.155 Jam$$