1. 660 mm x 1cm = 6.60 x 10 cm \(\sigma \tag{5200 cm} \) \(\lambda \tag{5200 cm} \)

2. Structure I has a greater conjugation of chromopheres as the double bend is close enough to form the conjugated system larger than structure 2. As the a more ion jugated system there exist the waveleyth of the nominum absorption I must be B-ion one and II must be workered. I ion one.

7. A= Ebc & A= (1.00) (1.05 x co3) (237x co3) A= 2.45 x co3 = 0.245.

(b) To 10-A- (00 0869 0,569.

a) $t=(2.00)(1.05\times0^{3})(2.33\times0^{-4})$ = $2.45\times0^{-1}\times2 = 4.89\times0^{-1}=0.489$ $T=10^{-0.489}=0.324$

(d) A= 2.45 x00 x2 = 4.89 x00-1=0.489 T=10-0.489 = 0.324

4) (a) A= 66c 0.650 = (1.00) (8400) C Nx5 =7.74 x10-5 M 0x5 +613

(b) 7.74 × 10-5 mol 283.241 g by costs gloate 283.241 g/mol 283.241 g/mol 2.19 × 10-5 g/ml (000ml)

(1) Maying 2.19 x10⁵ 9 x 1000 ms character pone.

Notice 1st 1st x 1000 ml - 21,9 pp m

a) because granosine albertos out 275 um, which is in the UV region, it is colorless