

臺北醫學大學九十學年度研究所博士班招生考試題目卷

手

九十學年度博士班
藥學研究所 藥劑學

考試時間：90分鐘

題目試卷共一張，本試卷為第一張

1. Please design a anti-hypertension controlled dose form, including theory, equation, type of dose form etc. (20)
2. Briefly describe a bridging study of an anti-diabetic compound. (20)
3. If given verapamil, and cimitidine orally together, please describe the influence of pharmacokinetic profiles (AUC, half-life, Cmax, and permeability coefficients, etc.) and pharmacodynamic profiles? (20)
4. Given a block copolymer $[\text{CH}_3-(\text{CH}_2\text{CH}_2\text{O})_n-\text{oleic acid}]$, explain the formation of polymeric micelles and stability of polymeric micelles by physical-chemical properties. (20)
5. One new compound, (solubility = 50 mg/ml, $\text{pK}_a = 7.9$, $\text{MW} = 310$) has a low oral bioavailability, please design the enhancement of methods. (20)