國立嘉義大學九十六學年度 微生物與免疫學系碩士班招生考試試題

科目:微生物與免疫學

- 一、申論題(85分)
 - 1. Give the major characteristics and functions of the four major protein secretion pathways of procaryotes. How do the type III protein secretion pathway operate? (20 分)
 - 2. Describe the life cycle of the budding yeast *Ssccharomyces cerevisiae*. How are ascomycetes important to humans? (15 分)
 - 3. Give five ways in which chemotherapeutic agents kill or damage bacterial pathogens. And briefly describe each mechanism of action. (20 分)
 - 4. Antibiotic resistance can be categorized in three types, please briefly describe each of them. And then try to describe the resistance mechanisms to β -lactams. (15 β)
 - 5. Please describe the importance and functions of dendritic cells in the immune defense. (15 分)
- 二、解釋名詞(每題5分,共15分)
 - 1. Inflammation
 - 2. Helper T cell
 - 3. Superantigen