

國立嘉義大學九十五學年度

微生物與免疫學系碩士班招生考試(甲組)試題

科目：微生物與免疫學

一、申論題(每題 20 分，共 80 分)

1. What is a plasmid? Describe each of the following plasmids and their importance: F factor, R factor, Col plasmid, virulence plasmid, and metabolic plasmid.
2. How are lysosomes formed? Describe the various forms of lysosomes and the way in which they participate in intracellular digestion. Define Endocytosis, Phagocytosis, Pinocytosis, Autophagic vacuoles, and Proteasomes.
3. Please describe the life cycles of typical ascomycete and basidiomycete.
4. Influenza virus 經由飛沫傳播，感染人類呼吸道的上皮細胞，請問在感染的過程中身體會對入侵的病毒產生那些免疫反應？(包括 innate immunity 以及 acquired immunity)

二、解釋名詞(每題 5 分，共 20 分)

1. VDJ recombination
2. Chemotaxis
3. Superantigen
4. Opsonization