編號: 304

## 國立成功大學 105 學年度碩士班招生考試試題

系 所:微生物及免疫學研究所

考試科目:免疫學

考試日期:0228, 節次:3

第1頁,共1頁

※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。

## 10% each question

- 1. What are the common and distinct features in the three different complement pathways?
- 2. Define MHC polymorphism and MHC restriction.
- 3. How is antibody (immunoglobulin) diversity generated (in order to bind specific antigen)? Among these above mentioned mechanisms, which one of them is NOT involved in generating the T cell receptor (TCR) diversity?
- 4. Describe the process and molecules (complement components, cytokines, chemokines, and adhesion molecules) in the inflammatory response.
- 5. Briefly describe what you know about Treg, Th17, Th1 and Th2 cells and their balance.
- 6. What are the possible mechanisms of how tumors evade immunosurveillance?
- 7. Please describe how to achieve immunological tolerance in our body.
- 8. Please discuss how bacteria evade host innate immune recognition and adaptive immunity.
- 9. Please discuss how viruses evade host innate immune recognition and adaptive immunity.
- 10. List and briefly describe Type I, II, III and IV hypersensitivity reactions.