編號:

289

國立成功大學108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

第1頁,共1頁

考試日期:0224, 節次:3

※ 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。

- 1. Please describe how the different subsets of T cells (i.e. Th1, Th2, Th17, TFH, and Treg cells) are differentiated, and their distinct effector functions. (20%)
- (a) Please describe the processes to generate the antibody diversity.(b) What is allelic exclusion in individual B cells? (20%)
- 3. How to achieve immunological tolerance in our body? Please describe both central tolerance and peripheral tolerance. (20%)
- 4. (a) Please describe the immune surveillance theory of cancer.
- (b) In order to increase the anti-tumor immunity, the strategy of check-point blockage has been used to develop immunotherapy for cancers. Please describe how PD-1-PD-L1 interaction can be beneficial for cancer growth, and the blockage strategy to improve the outcome of cancer treatment. (20%)
- 5. What are the mechanisms used by bacteria and viruses, respectively, to subvert the host immune system? (20%)