## 國立成功大學 111學年度碩士班招生考試試題

編 號: 273

系 所:微生物及免疫學研究所

科 目: 分子生物學

日 期: 0220

節 次:第3節

備 註:不可使用計算機

編號: 273

## 國立成功大學 111 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:分子生物學

考試日期:0220,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。
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- 1. What are "Telomere" and "Telomerase"? Please describe their roles in biology and disease. (20 points)
- 2. What is "Epigenetics inheritance"? (20 points)
- 3. Please design experiments to determine whether Protein A is a transcriptional factor to regulate the expression of Gene B. (20 points)
- 4. Please describe the mechanism of Translation. How does antibiotic Puromycin inhibit the translation? (20 points)
- 5. If you are a scientist, you have found that expression of a gene called X is increased in Breast cancer cells. Please design experiments to determine whether this X gene is involved in tumor formation of breast cancer. (20 points)