編號:

310

國立成功大學103學年度碩士班招生考試試題

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系所組別: 生理學研究所

考試科目: 細胞及分子生物學

考試日期:0223,節次:2

※ 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 use the following terms to illustrate the road-map of endocytic and biosynthetic-secretory pathways inside cells. (a) Endoplasmic reticulum, (b) Golgi, (c) Early endosome, (d) Late endosome, (e) Lysosome, (f) Secretory vesicles and (g) Cell exterior (20%)
- 2. Please describe the "cell cycle". What is "interphase"? How to determine the stage of cell cycles. (20%)
- 3. What is "post translational modifications"? What are functions of post translational modifications? (20%)
- 4. How to pack DNAs to chromosomes? What are results if DNAs are packed tightly? (20%)
- 5. How to prove that the DNA replication is semiconservative? (20%)