編號: 375

## 國立成功大學103學年度碩士班招生考試試題

共 / 頁,第/頁

系所組別: 臨床醫學研究所

考試科目: 生命科學

考試日期:0223,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。

Be concise in answering the following questions. Drawing is encouraged.

- 1. Explain epigenetics and provide 3 specific examples (10%).
- 2. What is a quantitative polymerase chain reaction? Provide 3 specific applications of the technique (10%).
- 3. Define and list 3 different kinds of stem cells (15%).
- 4. Define "cancer" and provide 3 potential causes leading to tumorigenesis (15%).
- 5. Please describe the meaning of the figure on the right (20%).
- 6. Define apoptosis and necrosis (10%). Give an example for death receptor-mediated apoptosis (10%).
- 7. Please describe the differences between phagocytosis and autophagy (10%).

