

國立成功大學  
110學年度碩士班招生考試試題

編 號： 333

系 所： 臨床醫學研究所

科 目： 生命科學

日 期： 0203

節 次： 第 3 節

備 註： 不可使用計算機

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考試日期：0203，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。

1. Please briefly describe the following terms.
  - (1) iPS cells (5%)
  - (2) Exosome (5%)
  - (3) CAR-T cells (5%)
  - (4) SNP (5%)
  - (5) Epigenetic modification (5%)
  - (6) Optogenetics (5%)
  
2. Please briefly describe the following methods.
  - (1) Microarray (5%)
  - (2) Two dimensional gel electrophoresis (5%)
  - (3) Whole genome sequencing (5%)
  - (4) Super resolution microscopy (5%)
  - (5) Chromatin immunoprecipitation assay (5%)
  - (6) RNA interference (RNAi) (5%)
  
3. What is precision medicine? (5%)  
Please give an example of it's potential application in human diseases. (5%)
  
4. What is cell therapy? (5%)  
Please give an example of it's potential application in human diseases. (5%)
  
5. What is Darwin's theory of evolution? (10%)
  
6. What is the major finding of the Nobel Prize in Physiology or Medicine 2020? (5%)  
What is the major finding of the Nobel Prize in Chemistry 2020? (5%)