

編號： 408

國立成功大學九十七學年度碩士班招生考試試題

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系所：細胞生物與解剖學研究所

科目：細胞生物學

本試題是否可以使用計算機：可使用，不可使用（請命題老師勾選）

考試日期：0302，節次：2

1. Draw a macrophage with all the organelles included and labeled. (10%)
2. Please give two examples to explain how phosphorylation of a protein can be used to regulate its activity. (10%)
3. Starting from synthesis, please describe the fate of a plasma membrane protein (15%)
4. Proteins are degraded extracellularly and intracellularly. Please give four different ways that an organism adopts to degrade protein. (20%)
5. Please give an example to address how cells sense and respond to the change of a specific hormone. Be as specific as possible. (20%)
6. Some motor neurons are longer than 1 meter. Please explain how proteins are transported effectively and timely in these cells. (10%)
7. Please give three examples why a cell dies? (15%)