

題號： 473

國立臺灣大學101學年度碩士班招生考試試題

科目：生物化學(B)

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1. 請簡述膜蛋白的種類與功能? (15%)
2. 哺乳動物的含氮廢物有哪幾類?如何合成? (15%)
3. 一個具有四級結構的蛋白質，請描述有那些可能的分子間作用力存在? (15%)
4. 請設計一個目前世界上還未有之基因改造生物，需敘述如何製造它以及你想如何利用它? (15%)
5. What is Calvin Cycle? Please list the metabolites involved along with the metabolic sequence? Where are the needed ATP and NADPH in metabolism from? (12%)
6. What are the functions of glycerolipids? Please describe the difference of chemical nature of these glycerolipids according to their function or existing location in cell. (8%)
7. What is Krebs Cycle? Please list the metabolites involved along with the metabolic sequence? Where does these metabolism happen in the cell? (16%)
8. What is carotenoids? Please describe their functions in cell, and their biosynthesis. (4%)

試題隨卷繳回