

國立成功大學
110學年度碩士班招生考試試題

編 號：291

系 所：環境醫學研究所

科 目：毒理學

日 期：0203

節 次：第 2 節

備 註：不可使用計算機

編號：291

國立成功大學 110 學年度碩士班招生考試試題

系所組別：環境醫學研究所

考試科目：毒理學

考試日期：0203，節次：2

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. What is a poison? (5%)
2. Explain dose-response relationship. (10%)
3. How important is the selectivity? (10%)
4. Describe absorption, distribution, metabolism, and excretion of a toxicant in the human body. (20%)
5. The main function of a hypothesis is to suggest new experiments or new observations. Most experiments and many observations are carried out with the deliberate object of testing a hypothesis. Please show an approach to the study of lead (Pb) toxicity. (15%)
6. We have dealt with many issues in the past and we will face challenges in the future. Toxicology attempts to define the harm that toxicants can cause damages to human beings and it is an integral part of the risk assessment process. The demands of science for rational, unemotional, experimentally demonstrable bases for its beliefs lead to its greatest strengths. Please propose a toxicological approach to toxicant(s) in the semiconductor industry in Taiwan. (20%)
7. Explain the following terms and their toxicological significance: a. Oxidative stress. (5%) b. LD50. (5%)
8. Give one example happened recently in our society related to a toxicant and its impacts. (10%)