

國立金門大學

100 學年度食品科學系碩士班考試試題

微生物

—作答注意事項—

考試時間：90 分鐘

題型題數：

◎問答題共 7 題

配分：

◎問答題每題依各題配分，總分 100 分

作答方式：

◎以黑筆或藍筆於「答案紙」作答

Please answer the following questions in Chinese.

1. Please explain the biological meanings of the following terminologies. (20%)
 - (a) Chaperonins
 - (b) Biofilm
 - (c) The Ames test
 - (d) Prions
 - (e) Chitin
2. Please briefly distinguish the terms in the following pairs: (20%)
 - (a) Bacterial endospore and mold spore
 - (b) Prokaryotic and Eukaryotic
 - (c) Gram (+) and Gram (-) bacteria
 - (d) Transcription and translation
3. Please describe the **three** main techniques for cultivating viruses. And give the advantages and the disadvantages for these techniques. (15%)
4. Please draw the 「**Tricarboxylic acid cycle**」 scheme. (15%)
5. Please illustrate the 「**fluid mosaic model**」 of plasma membrane. (5%)
6. What is difference(s) between 「**conformation**」 and 「**configuration**」 in protein structures? (10%)
7. Please write down what you plan to do for your **thesis** if you are enrolled in our graduate study program. (15%)