國立成功大學 111學年度碩士班招生考試試題

編 號: 332

系 所: 食品安全衛生暨風險管理研究所

科 目: 食品科學

日 期: 0220

節 次:第3節

備 註:不可使用計算機

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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. How dose salt affect the protein water solubility? (5%)
- 2. How dose pH affect the protein water solubility? (5%)
- Please explain how hydrophobic interaction affects protein globular structure.
 (5%)
- 4. What is the reason that heat can help protein gelation? (5%)
- 5. What is the mechanism of Maillard reaction (5%)
- 6. What is the target of α -amylase? (5%)
- 7. What is the major fatty acid does olive oil have? (5%)
- 8. What are the structure differences between C16:0 and C20:5 fatty acid? (5%)
- 9. What are the essential fatty acids? (5%)
- 10. What is the alcohol of most lipids in food? (5%)
- Please describe the difference between butter and milk in term of emulsification.
 (5%)
- 12. What is the structure difference between lactose and sucrose? (5%)
- 13. When the water activity of food is higher than the environment relative humidity, would the food get drier? (5%)
- 14. What is the structure difference between starch and cellulose? (5%)
- 15. What are the respiration rate and ethylene production differences between climacteric and non-climacteric fruits (10%)?
- 16. What is the mechanism of starch retrogradation? (5%)
- 17. How does pH affect Chlorophyll stability? (5%)
- 18. How does free radical affect lipid? (5%)
- 19. What is the color of anthocyanin? (5%)