(100)輔仁大學碩士班招生考試試題

考試日期:100年3月18日第3節

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科目:食品微生物學

系所組:食品科學系

1. Define foodborne intoxication, infection, and toxicoinfection, and give two examples for each. (10%)

- 2. Define nonpathogenic and pathogenic *Escherichia coli*. How are the pathogenic strains grouped? What are the characteristics of their toxins and pathogenicities? (15%)
- 3. List three edible fungi and indicate their applications in functional foods. (10%)
- 4. What reactions take place in the formation of off-odor compounds from lipid spoilage by microorganisms? (10%)
- 5. List the factors to be considered in selecting indicators of food safety. (10%)
- 6. Give three examples to show how the combinations of factors have been used to control growth of *Clostridium botulinum*. (15%)
- 7. List extrinsic factors necessary for growth of microorganisms in a food. (10%)
- 8. How does pH affect microbial growth? (10%)
- 9. Define and explain the following terms. (10%)
 - a. Mycotoxins
- b. Viruses