## (101)輔仁大學碩士班招生考試試題

考試日期:101年3月9日第一節

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科目:食品的工

系所組:電品科管研究可

- 1. Both degumming and alkali refining have to be used during processing of soybean oil. Please describe the principle and procedure for each. (10%)
- 2. What is instant milk powder? Also explain how raw milk can be processed into instant milk powder. (10%)
- 3. What is artificial tenderizing of meat? Also describe four methods which can be used to tenderize meat. (10%)
- 4. What is the difference between chocolate and imitation chocolate? Also explain how cocoa butter can be processed into chocolate. (12%)
- 5. What is selective hydrogenation? Please use linoleic acid as an example to explain. (8%)
- 6. Describe the purpose of each operation used in following foods: (18%)
  - (a) tuna can  $\leftrightarrow$  exhausting
  - (b) milk powder  $\leftrightarrow$  agglomeration
  - (c) frozen shrimp  $\leftrightarrow$  glazing
  - (d) minced pork ball  $\leftrightarrow$  kneading
  - (e) cream of corn soup ↔ rotational sterilization
  - (f) beef steak  $\leftrightarrow$  aging
- 7. Define the following terms and describe their applications in food industry. (20%)
  - (a) supercritical fluid extraction
  - (b) high pressure processing
  - (c) aseptic processing
  - (d) encapsulation
  - (e) retort pouch
- 8. How spray drying and freeze drying can be used for grape juice powder production? Also describe the principle and construction of these two methods. (12%)