(108)輔仁大學碩士班招生考試試題

考試日期:108年3月8日第1節本試題共二頁(本頁為第一頁)

科目: 語文能力-專業英文

系所組: 食品科學系

I. Milk is a complex <u>26</u> and soluble mixture of water, lactose, fat, protein, minerals and		
vitamins. Due to its comprehensive nutritional value, milk has become an important healthy food.		
Fresh whole milk is a common type of milk in the market, but 27 milk is appreciated by low-		
fat diet consumers because of the prevalence of 28, hyperlipidaemia and cardiovascular		
diseases currently. Lactose is one of the main nutrients of milk and a unique 29 presented		
only in mammalian milk. As the origin of the sweetness of milk, lactose is an important indicator of		
many 30 products. However, high lactose content can cause lactose 31, whose main		
symptoms are bloating, flatulence, abdominal pain and diarrhoea. Therefore, determining the		
lactose32 in raw milk is routinely carried out in food industry to guarantee effective process		
and to control product <u>33</u> .		

- 26. (A) colloidal (B) residue (C) compound (D) composition
- 27. (A) skim (B) organic (C) light (D) heavy
- 28. (A) cancer (B) asthma (C) headache (D) obesity
- 29. (A) protein (B) carbohydrate (C) mineral (D) vitamin
- 30. (A) soy (B) meat (C) dairy (D) fresh
- 31. (A) intolerance (B) reduction (C) loss (D) accumulation
- 32. (A) weight (B) volume (C) part (D) content
- 33. (A) value (B) quality (C) nutrition (D) composition
- Widely cultivated __34__ are Coffeaarabica (arabica) and Coffeacanephora (robusta). Despite the poorer sensory quality of C. canephora, it has the advantage of allowing __35__ of large amounts of soluble solids, which enables its use in blends and in the soluble coffee industry. Beverages prepared from roasted beans have __36__ flavour and aroma in addition to their physiological effects. The preference for different kinds of coffee beverages is strictly __37__ social habits and country cultures. The company GEA Niro (Parma, Italy), a traditional __38__ of process lines for instant coffee and tea, reported that soluble coffee is widely __39__ (45% in Eastern Europe, 53% in Asia/Pacific, and 79% in Australia), standing out in countries where tea is a traditional beverage. Soluble coffee __40__ are a major source of revenue in Brazil due to the higher aggregate value of the product.
- 34. (A) types (B) species (C) kinds (D) styles
- 35. (A) removal (B) exclusion (C) extraction (D) injection
- 36. (A) pleasant (B) lovely (C) unsatisfying (D) many
- 37. (A) depended on (B) associated with (C) relied on (D) subjected to
- 38. (A) farmer (B) grower (C) manager (D) producer
- 39. (A) consumed (B) used (C) eaten (D) appeared
- 40. (A) imports (B) usages (C) packages (D) exports

- 2.本試題紙空白部份可當稿紙使用。
- 3.考生於作答時可否使用計算機、法典、字典或其他資料或工具,以簡章之規定為準。

[※] 注意:1.考生須在「彌封答案卷」上作答。

(108)輔仁大學碩士班招生考試試題

考試日期:108年3月8日第1節

本試題共 二 頁 (本頁為第 二 頁)

科目: 語文能力-專業英文

系所組: 食品科學系

III.	The sous vide process is characterized by41_ packaging in heat-stable, high barrier	
	followed by pasteurization and quick cooling before refrigerated storage below 3°C. The	
packa	ging 43 must fulfil several tasks, and therefore meet several specifications: it must be	
resista	ant to high temperatures, and have low 44 to gases (O2, vapour), sufficient 45	
strength and limited migration of plastic constituents (food grade).		

Sous vide cooked foods usually undergo very ___46__ heat treatments and some concern has been expressed about the microbiological __47__ involved. One of the ___48__ of prime interest with regard to safety of sous vide cooked beef is *Listeria monocytogenes* due to its widespread occurrence, psychrotrophic nature and relatively high heat ___49__. Heating at slowly rising temperatures has been shown to enhance viability of *L. monocytogenes* in broth and in pork and ___50__ environments facilitate resuscitation of heat-injured cells of this bacterium. Therefore concern may arise about the possible survival of *L. monocytogenes* in marginally heated sous vide cooked meat products.

- 41. (A) aseptic (B) modified atmosphere (C) aluminum (D) vacuum
- 42. (A) bags (B) cans (C) boxes (D) bottles
- 43. (A) outside (B) material (C) content (D) label
- 44. (A) evaporation (B) space (C) storage (D) permeability
- 45. (A) mechanical (B) antibacterial (C) antioxidative (D) chemical
- 46. (A) high (B) low (C) gentle (D) harsh
- 47. (A) control (B) quality (C) risks (D) standards
- 48. (A) cells (B) organisms (C) types (D) fungi
- 49. (A) instability (B) intolerance (C) capacity (D) resistance
- 50. (A) anaerobic (B) aerobic (C) low humidity (D) low water activity

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(108) 輔仁大學碩士班招生考試試題

考試日期:108年3月8日 第 ≥ 節本試題共1頁(本頁為第1頁)

科目: 食品加工

系所組: 食品科學

- 1. 由大豆原油粗製油製成烤酥油通常要經過 5 個步驟,請簡要說明每個步驟的原理和目的。(15%)
- 2. 市售一般奶粉和即溶奶粉的加工方法有何不同?請說明。(10%)
- 3. 冷凍食品提供了產品的保存性與飲食的快速方便性,對於其加工技術端,如何影響 最終產品品質,請回答以下問題:
 - (1) 何謂最大冰晶生成帶?(5%)
 - (2) 何謂急速冷凍? 與一般冷凍有何差別? 請畫曲線說明。(5%)
 - (3) 何謂 IQF (individual quick freezing)? 冷凍方式有哪些?(5%)
 - (4) 何謂 freezer burn? 應如何防止? (5%)
 - (5) 何謂 drip loss? 應如何避免?(5%)
- 4. 請針對蔬果、水產、肉品各舉一例食品說明其(1)加工流程、(2)加工過程中可能產生的副產物(by-products)與(3)這些副產物可能的再利用。(30%)
- 5. 請說明水活性與 pH 值如何影響食品的安定性。(10%)
- 6. 請解釋下列名詞
 - (1) 無菌加工(5%)
 - (2) 噴霧乾燥(5%)

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