(110)輔仁大學碩士班招生考試試題

考試日期:110年3月5日第 1 節

本試題共 2 頁 (本頁為第 1 頁)

科	· B	:專業英文	系所組:食品科學系
	and	e enzyme can act on α-1,4 d on damaged amylose or amylopection) lactase (B) β-amylase (C) α-amylase	
	sol	is the major method of heat lid.) Radiation (B) Convection (C) Conduction	transfer from molecule to molecule through a uction (D) Irradiation
, ,		ow-methoxyl pectin can form cross-line) calcium (B) acid (C) glucose (D) so	
(29)		IViC test does not include	
(30)	po	ne is defined as the time requipulation. a) Z value (B) D value (C) F value (D)	red for a 90% reduction in the microbial T value
(31)	tak	is the first major phase in ken by the cells to adapt to the new en log phase (B) lag phase (C) death pl	_
(32)		acrose is a disaccharide consisting of the consi	he monosaccharides and glucose. (D) glucose
(33)		empeh is a based fermentation a) rice (B) soybean (C) corn (D) barley	n product that contains over 40% protein.
(34)	sta	chromatography is based ationary phase. A) Ion-exchange (B) Gas (C) Thin-layer	on electrostatic interactions between solute and er (D) Size-exclusion
(35)		afety of cereal grains is better assured A) LIFO (B) FIFO (C) random (D) FII	by appropriate storage includingrotation. O
(36)		is the least sweet and least solu A) Xylose (B) Lactose (C) Sucrose (D)	
(37)	ch	romophore-containing compounds.	I to measure the absorption of radiation by in (C) Refractive Index (D) Electrochemical
(38)		LISA stands for Enzyme-LinkedA) Inhibition (B) Induction (C) Immur	

※ 注意:1.考生須在「彌封答案卷」上作答。

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。

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科目	:	專	業	英	文
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系所組:食品科學系

41	THE TRACE	7] AL · Kuri T · A
(39)	Dry ashing refers to the use of a muffle furnation.	nace capable of maintaining temperatures of
	(A) 50 – 60 (B) 500 – 600 (C) 90 – 100 (D)	2000
(40)	is a process where a liquid is calcal (A) Atomization (B) Crystallization (C) En	
(41)	HACCP stands for Hazard Analysis and Cr (A) Conversion (B) Control (C) Continuous	
(42)	is the most abundant protein foun (A) Casein (B) Collagen (C) Ovoglobulin (
(43)	should not be consumed by thos (PKU) because the phenylalanine cannot be (A) Cyclamate (B) Saccharin (C) Sucralose	e metabolized.
(44)	Phospholipids are similar to triglycerides by glycerol. (A) zero (B) one (C) two (D) three	ut contain only fatty acids esterified to
(45)	The lactic acid bacteria produce lactic acid fermentation. (A) sugar (B) fat (C) protein (D) polypheno	
(46)	Blanching is used to enzymatic actifurther processing. (A) facilitate (B) maintain (C) destroy (D)	
(47)	Water has strong bonds to hold the together. (A) hydrogen (B) covalent (C) ionic (D) me	e two hydrogen atoms and one oxygen atom etallic
(48)	medium; during fermentation, no medium a (A) Batch (B) Fed-batch (C) Continuous (I	
(49)	between a series of electrode pairs. (A) SVP (B) PEF (C) MW (D) HHP	on of high-voltage pulses to foods located
(50)	refers to the occurrence wh structure upon cooling. (A) Gelatinization (B) Gelation (C) Retrog	

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(110)輔仁大學碩士班招生考試試題

考試日期:110年3月5日 第 之 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. 油脂加工中有三個步驟可進行工業交酯化(interesterification),請簡要說明。(9%)

- 2. 請解釋下列乳品加工相關名詞:(9%)
 - (1) 攪動(churning)
 - (2) 牛奶標準化(milk standardization)
 - (3) 二段式均質(two-stage homogenization)
- 3. 天然與人工進行肉品嫩化(tenderizing)之差異為何?並請解釋肉品嫩化的機制。(7%)
- 4. 請說明水產原料容易腐敗的原因。(5%)
- 5. 請說明以下兩種水產加工品(1)冷燻鮭魚與(2)蟹風味棒的製造流程及其保存方法與原理。(15%)
- 6. 香腸製品中添加亞硝酸鈉的目的為何?(5%)
- 7. 請就操作溫度(例:>100℃、<100℃)、操作壓力(例:常壓、減壓)、適用食品型態(例: 固體、液體、固液體皆可)、貯存期限(例:數日、數週、數月)、主要目的(例:去 除致病菌、去除腐敗菌、去除酵素活性)等五個面向進行以下五種熱加工方法的比 較,並各舉一個食品例子。(30%)
 - (1) 殺菁(blanching)
 - (2) 巴氏殺菌(pasteurization)
 - (3) 商業殺菌(commercial sterilization)
 - (4) 超高溫(ultra-high-temperature)殺菌
 - (5) 高溫短時間(high temperature short time)殺菌
- 8. 請說明輻射照射(irradiation)於食品加工之應用。(10%)
- 9. 請解釋下列名詞:(10%)
 - (1) 硫化黑變(sulfide blackening)
 - (2) 冷凍曲線(freezing curve)

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