Kafrelsheikh University Faculty of veterinary medicine Department of food control Subject :Milk hygiene 2<sup>nd</sup> semseter Code: 4th year student



Date 12/6/2016 Time allowed: 2hrs Number of pages: two

Full marks: 25

Name: Academic number:

### Please answer the following:-

## <u>I- First question</u> (6 marks)(ILOs: a4,a5,a8,b1,b2,b3,b4,c4,c5)

Fill in the spaces with the correct answers:-	(0.25mark for each space)
1- Candling of eggs is a test used for	
2- Changes of eggs during aging are	
3- Chemical antimicrobial defenses of egg a, and	
4- Defects renders eggs unfit for consumption are	<sup>1</sup> ,
5	, und
5- Ripening of cheeses can be attained by	
6- Emulsifiers used for processed cheese are and its function are	
II- Second question (6.5 marks)(ILOs:a1,a2,a	4,a5,a6,b1,b2,b3,b4,c4)
1- Differentiate (in a table) between <i>S.aureus</i> and <i>C.ba</i>	byulinum food poisoning cases.
	(3 marks)
2- Enumerate only the (CCP1) during milk powder, of	condensed and evaporated milk
products manufacturing.	(1.5 marks)
3- Discuss in details about thickening and button in co	ncentrated milk.
	(2 marks)

Kafrelsheikh University
Faculty of veterinary medicine
Department of food control
Subject: Milk hygiene 2<sup>nd</sup> semseter
Code: 4<sup>th</sup> year student



Date 12/6/2016
Time allowed: 2hrs
Number of pages: two
Full marks: 25

Name: Academic number:

<u>III- Third question</u> (6.5 marks)(ILOs: a1,a2,a3,a4,a5,a6,a7,b2,b3,b4,c3,c4)

# A)- Mark ( $\sqrt{\ }$ ) for true and (X) for wrong, then correct the wrong statement and give reason(s). (5 marks/one mark each)

- 1. Gel tests used for detection of mastitis mainly depend on pH of milk.
- 2. Crumbly body ice cream characterized by pasty or putty texture.
- 3. Reichert Meissel number of butter fat is lower than the number of coconut oil.
- 4. During yoghurt manufacture, the relationship between starter components is competitive.
- 5. Prebiotcs are mono or mixed cultures of live organisms which play an important role against gastrointestinal illness.

B)	Choose the correct a	nswer:-	(1.5 marks/0.5 mark each)	
1-	Acid value and acid d	legree measure	present in fat or oil.	
a)	free fatty acids	b) saturated fatty acids	c) volatile fatty acids	
2-In kieler's test for detection of mastitis, milk sample contains 5cells/field is judged				
a)	+ ve	b) ++ ve	c) +++ ve	
3-	Mastitis leads to chan	ge in milk constituent as		
a)	decrease in chloride	b) decrease in pH	c) increase in lactglobuline	

#### IV- Fourth question (6 marks/one mark each)(ILOs:a1,a4,a5,a6,b3,b4,c4

### Give reason(s) of the following:-

- 1- Water quality inside the dairy plant must be assessed chemically and microbiologically.
- 2- Cooling milk immediately after pasteurization is very important.
- 3- Brown coloration and caramel-like flavor of in-bottle sterilized milk.
- 4- Cream used for butter manufacture should be pasteurized.
- 5- Working of butter grains is extremely important.
- 6- Ghee has longer keeping quality than butter.

With best wishes
Staff members of food control department

Head of department

Prof. Dr. Azza M.M. Deeb