2017 Iowa FFA Food Science CDE General Knowledge Exam

Multiple Choice

_	choice that best completes the stateme	ent or answers	the question.
 1.	Food is a commodity. a. global b. national		local state
 2.	The United States is the largest expora. milk and sugar		vo items? potatoes and carrots
	b. oranges and apples	d.	cereal grains and soybeans
 3.	The periodic table arranges elements		of in their outermost energy levels
	a. neutrons		protons
	b. atoms	d.	electrons
 4.	Covalent bonds are formed by the sha		
	a. atoms		electrons
	b. neurons	d.	protons
 5.	What is the symbol for salt?		** 0
	a. NaCl		H_2O
	b. $C_6H_{12}C_6$	d.	CO_2
 6.	Hydrogen bonds are formed when a h		
	a. molecules		elements
	b. atoms	a.	neutrons
 7.	Which types of chemical bonds are th		
	a. covalent		ionic
	b. Van der Waals	d.	none of the above
 8.	Organic chemistry involves molecule		
	a. carbon		oxygen
	b. nitrogen	u.	calcium
 9.	Carbohydrates are composed of		-in al
	a. carbon, water		zinc, aluminum
	b. hydrogen, oxygen		gold, calcium
 10.	Which of the following is the source	•	
	a. plant		animal
	b. human	a.	insect
 11.	Vitamin functions in normal blo	_	D
	a. C	c.	
	b. A	d.	K
 12.	Sucrose is commonly referred to as _		011000
	a. saltb. carbohydrate		sugar glucose
	o. caroonyurate	u.	grucose

 13.	is the most common polysaccharide added a. Water b. Salt	d to c. d.	Glucose
 14.	Identify the complex carbohydrate that cannot be a. fiber b. cellulose	c.	•
 15.	makes up 14 to 17 percent of the skeleton a. Magnesium b. Iron	c. d.	Phosphorus Sodium
 16.	functions in carbohydrate metabolism. a. Zinc b. Thiamin	c. d.	Riboflavin Vitamin B
 17.	How many cups of water do humans require pe a. 1 to 3 b. 10 to 12		y? 5 to 9 7 to 11
 18.	Which micromineral is essential for the product a. calcium b. iodine	tion c. d.	of the thyroid hormones? fluorine magnesium
 19.	RDA stands for Recommended Allowanc a. Dose b. Dietary	c.	Dairy D-vitamin
 20.	percent of the adult body is made up of war a. Fifty-five b. Sixty-five	c.	
 21.	An adult should drink glasses of water per a. 6 to 8 b. 7 to 9	c.	y. 5 to 7 8 to 10
 22.	Carbohydrates and proteins provide abouta. 5 b. 2	cal c. d.	4
 23.	Fat contributes about calories per gram. a. 9 b. 10	c. d.	
 24.	Alcohol supplies about calories per gram. a. 6 b. 7	c.	5 4
 25.	Fiber is important in function. a. bowel b. stomach	c. d.	muscle skeletal

 26.	The most important food appearance factor is		<u>.</u> •
	a. color	c.	shape
	b. size	d.	packaging
 27.	Naturally occurring play a role in food co	lori	ng.
	a. enzymes		pigments
	b. sugars		carbohydrates
			•
 28.	or spectrophotometers can be used for me	easu	ring transparent foods.
	a. Thermometers	c.	Liquid
	b. Meters	d.	Colorimeters
 29.	Fruits and vegetables are graded based on their		and
	a. size, shape	c.	smell, shape
	b. color, size	d.	smell, color
30.	standards help ensure food quality.		
 50.	a. National	C	Packing
	b. Quality		Legal
	b. Quanty	u.	Legal
31.	can be achieved on the basis of density or	siz	e and shape.
	a. Separation		Clarification
	b. Quality	d.	Flavor
 32.	A pump consists of a reciprocating or rota	-	•
	a. positive		negative
	b. centrifugal	d.	hand
 33.	and are already solid and lend them	selv	es to sun or tray drying.
	a. Cheese, meats	c.	Cheese, vegetables
	b. Fruits, vegetables	d.	Fruits, meats
34.	The most common drying method is drying	nø	
 5	a. freeze-	_	spray
	b. sun or tray drying		oven
	o. sun of day drying	u.	o ven
 35.	are the largest of the microorganisms but		
	a. Yeast		Molds
	b. Bacteria	d.	Ameba
36.	Microbes that prefer cold temperatures are		
	a. mesophilic		psychrophilic
	b. thermophilic		obligative
	o. u.v.msp.m.v	٠.	001 g
 37.	Bacteria or molds that require atmospheric oxy	_	
	a. anaerobic		mesophilic
	b. aerobic	d.	thermophilic
38.	Most bacteria are killed at° to°F, but	t snc	ores are not.
 	a. 150, 175		160, 200
	b. 180, 200		175, 200
	-·		,

 39.	Microbial growth slows at temperatures under		_°F.
	a. 80	c.	60
	b. 70	d.	50
40.	can destroy the microorganisms and inact	ivat	re enzymes
 10.	a. Radiation		Drying
	b. Cooling		Freezing
	o. Coomig	u.	Treezing
 41.	is the transfer of heat from one particle to		
	a. Conduction		Radiation
	b. Convection	d.	Combustion
42.	heating means that the circulation of curre	ents	in one region inside a can distributes the heat to another
	a. Conduction		Convection
	b. Radiation		Slow
			210 11
 43.	is the transfer of energy in the form of ele		
	a. Compulsion		Convection
	b. Radiation	d.	Conduction
44.	To achieve continuous pasteurization in milk t	ha r	nilk needs to be heated to 161°F for seconds.
 44.	a. 15		10
	b. 20	d.	
	0. 20	u.	3
 45.	Low-acid foods have pH values of or less		
	a. 5.2	c.	3.9
	b. 4.6	d.	4.2
16	Cool standard and any temperature from		0 to 0E
 40.	Cool storage is considered any temperature from		
	a. 28, 68		28, 78
	b. 18, 48	a.	32, 58
47.	Household refrigerators usually run ato to		°F.
	a. 45.5, 50.2		32.3, 35.7
	b. 40.5, 44.6		21.4, 26.5
 48.	Intimate contact occurs between the food or pa	_	•
	a. blast		cold
	b. pressure	d.	immersion
49.	How long will frozen orange juice last at 10°F3)	
 .,.	a. 14 months	c.	10 months
	b. 6 months		2 months
	o. o months	u.	2 monday
 50.	Which vitamin is used most commonly to contra	rol t	prowning in fruits by enzymes?
	a. K		В
	b. C	d.	D

2017 Answer Key

MULTIPLE CHOICE

1.	ANS:	A	
2.	ANS:	D	
3.	ANS:	D	
4.	ANS:	C	
5.	ANS:	A	
6.	ANS:	A	
7.	ANS:	В	
8.	ANS:	A	
9.	ANS:	A	
10.	ANS:	A	
11.	ANS:	D	
12.	ANS:	C	
13.	ANS:	D	
14.	ANS:	A	
15.	ANS:	C	
16.	ANS:	В	
17.	ANS:	D	
18.	ANS:	В	
19.	ANS:	В	
20.	ANS:	В	
21.	ANS:	A	
22.	ANS:	C	
23.	ANS:	A	
24.	ANS:	В	
25.	ANS:	A	

26.	ANS:	A
27.	ANS:	C
28.	ANS:	D
29.	ANS:	A
30.	ANS:	В
31.	ANS:	A
32.	ANS:	A
33.	ANS:	В
34.	ANS:	C
35.	ANS:	A
36.	ANS:	C
37.	ANS:	В
38.	ANS:	В
39.	ANS:	D
40.	ANS:	A
41.	ANS:	A
42.	ANS:	C
43.	ANS:	В
44.	ANS:	A
45.	ANS:	В
46.	ANS:	A
47.	ANS:	В
48.	ANS:	D
49.	ANS:	C
50.	ANS:	В

2017 Iowa FFA Food Science CDE

Food Safety and Quality Section Response to Consumer Complaint

The Consumer Affairs Department at Cyclone Dairy has received the following letter from a customer. Please respond to the consumer's complaint. Your response should contain the answers presented by the consumer. Please be concise and courteous in your response. Your response will be scored based on the identification of problem, identification of correct solution, completeness and correctness of your response, courteousness, conciseness (limit to 1 page), and appropriate grammar and correct spelling.

June 5, 2017

Dear Sirs:

I am a loyal customer of Cyclone Dairy and love all your dairy products. Three weeks ago, I purchased several cartons of yogurt. The yogurt I ate right after I purchased it had a smooth creamy texture and great flavor. Yesterday I was going to have some yogurt for lunch. When I opened the container, there was a small amount of watery liquid on the surface of the yogurt. I smelled the yogurt and it had a typical yogurt aroma. The sell-by date on the carton was June 8, 2017. I wasn't sure if I should eat the yogurt or not because of the liquid separating from the yogurt. I decided to throw it out, but wanted to check with you to see if this was safe or not, so if it happens again, I would know what to do. Could you answer the following questions for me?

- 1. What caused the separation of the liquid in the yogurt?
- 2. Will I get sick from eating the yogurt?
- 3. Is there anything I can do to correct the problem or should I just throw it out?
- 4. What will your company do to make sure that this liquid separation does not occur in the future?

I look forward to hearing from you.

Thank you.

Madison Crosby

	Points Possible	Points Received
Identification of Problem	15	
Presentation of Solution	15	
Courteousness of Response	10	
Conciseness (less than 1	5	
page)		
Grammar and spelling	5	
	50	

FFA Food Science Consumer Complaint Response

June 8, 2017	School Nam	ne		
50 points	Contestant	Number	_	
	Scor	re/ <u>50</u>		
Complete your response in	the box below:			

2017 Iowa FFA Food Science CDE

Food Safety and Sanitation Section

In this segment of the contest, you will be given pictures/graphics to view in reference to common problems that exist within the food industry. Your task for each set of pictures and/or graphics are to: (a) identify the problem and (b) select the most appropriate solution to the problem. There will be five (5) sets of food safety and/or sanitation concerns with each question valued at 5 points for a total of 50 possible points.

When done, return this document with your answer sheet to the test proctor.

DO NOT MARK ON THIS DOCUMENT

Set #1:







Question 1: These pictures most represent which of the following food industry concerns:

- a. Staphylococcus
- b. Salmonella
- c. Listeria
- d. Botulism
- e. Campylobacter

Question 2: In reference to the above pictures, what would be the solution to this food industry concern/problem?

- a. Thoroughly cook raw food from animal sources, such as beef, pork, or poultry.; Wash raw vegetables thoroughly before eating; and Keep uncooked meats separate from vegetables and from cooked foods and ready-to-eat foods.
- b. Carefully wash fruits and vegetables, and steam oysters before eating them; Frequently wash your hands, especially after toilet visits and changing diapers and before eating or preparing food; and Thoroughly clean and disinfect contaminated surfaces immediately after an episode of illness.
- c. Always wash hands with warm, soapy water; if your hands have any kind of skin abrasion or infection, always use clean disposable gloves; and keep cutting boards clean.
- d. Do not eat raw or undercooked eggs, poultry, or meat; avoid Cross-contamination of foods; and wash hands after contact with animal feces and/or reptiles.
- e. Handle poultry carefully to prevent cross-contamination; utilize proper wrapping; and most egg products should be pasteurized.

Set #2:





Question 3: These pictures most represent which of the following food industry concerns:

- a. Cross contamination
- b. E coli
- c. Botulism
- d. Listeria
- e. Salmonella

Question 4: In reference to the above pictures, what would be the solution to this food industry concern/problem?

- a. Home canned products need to use higher level acids, follow strict hygienic procedures, and prepare foods using high temperatures.
- b. Thoroughly cook raw food from animal sources, such as beef, pork, or poultry; Wash raw vegetables thoroughly before eating; and Keep uncooked meats separate from vegetables and from cooked foods and ready-to-eat foods.
- c. Drink only pasteurized milk, juice, or cider; wash fruits and vegetables under running water, especially those that will not be cooked; and cook all ground beef and hamburger thoroughly.
- d. Sterilize raw foods at the plants, pasteurization of milk, and improving safe food handling practices in kitchens
- e. Do not eat raw or undercooked eggs, poultry, or meat.; avoid Cross-contamination of foods; and wash hands after contact with animal feces and/or reptiles.

Set 3:







Question 5: These pictures most represent which of the following food industry concerns:

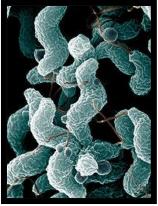
- a. Listeria
- b. Metal contamination in ground beef
- c. Botulism
- d. Staphylococcus
- e. E coli

Question 6: In reference to the above pictures, what would be the solution to this food industry concern/problem?

- a. Sterilize raw foods at the plants, pasteurization of milk, and improving safe food handling practices in kitchens
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Set #4:







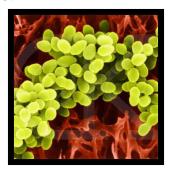
Question 7: These pictures most represent which of the following food industry concerns:

- a. Campylobacter
- b. E. coli
- c. Salmonella
- d. Listeria
- e. Norovirus

Question 8: In reference to the above pictures, what would be the solution to this food industry concern/problem?

- a. Home canned products need to use higher level acids, follow strict hygienic procedures, and prepare foods using high temperatures.
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Set 5:







Question 9: These pictures most represent which of the following food industry concerns:

- a. Norovirus
- b. parasites
- c. E coli
- d. Staphylococcus
- e. Botulism

Question 10: In reference to the above pictures, what would be the solution to this food industry concern/problem?

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- c. Drink only pasteurized milk, juice, or cider; wash fruits and vegetables under running water, especially those that will not be cooked; and cook all ground beef and hamburger thoroughly.
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2017 Iowa FFA Food Science CDE

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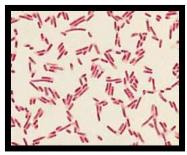
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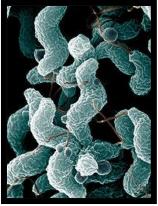
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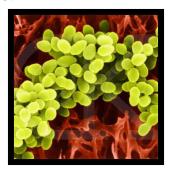
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FFA Food Science Product Development Career Development Event Developing a Breakfast Bars/Sports Bars

BACKGROUND

Americans are becoming increasingly more interested in their health through improved diet and exercise. Breakfast/Sport bars have gained popularity as a means to provide important nutrition prior to and during work outs. These bars are generally high in protein, vitamins, and minerals, but can also be high in calories and low in fiber. On the other hand, granola bars and trail mixes are generally good sources of fiber, but may be limited in some of the nutrients found in the breakfast bars/sports energy bars.

OBJECTIVE

Your task is to develop a breakfast/sports bar with the desirable characteristics of a breakfast/sports bar (high in protein and carbohydrates) and a granola bar (good source of fiber). Your product should be nutritious, easy to eat, require minimal time for preparation, be easy to prepare, and have satisfactory sensory characteristics. In addition, you will attempt to commercialize the product for grocery store use.

Your target nutrient guidelines are:

Serving size: 75 g (1 bar)

Fat: Less than 5 g Protein: At least 7 g

Carbohydrates (total): At least 25 g

Dietary Fiber: At least 3 g Calories: Less than 300 calories

METHOD

With your team, create a food product from the ingredients supplied in the following table. Your team should develop a product name, consider the potential use by consumers, determine the nutritional value, and evaluate the appearance, texture, and flavor of the final product.

Your team will present an oral report (15 minutes -10 to present and 5 for questions) to a group of trained judges. The evaluation form attached is how your group presentation will be evaluated. It is important that you have graphics to clearly show your product.

RULES

Your team will need to develop but not prepare your product. The following table includes suggestions for ingredients you may use. You may also use related ingredients (not listed) as alternates. You will need to include at least one source of fiber, one source of protein, and a binder which will hold the ingredients together so a bar can be formed. The use of dried fruits and flavorings is optional. A maximum of 8 ingredients can be used in your product. Select items from the following categories:

Fiber	Proteins	Binder	Dried Fruits	Flavorings
Oatmeal	Peanuts	Corn syrup	Raisins	Cinnamon
Wheat	Almonds	Peanut	Dried apples	Vanilla
Germ		butter		
Oat bran	Walnuts	Soynut	Dates	Chocolate
		butter		
	Sunflower	Honey	Coconut	Chocolate
	seeds			chips
	Non-fat	Oil		
	dried milk			
	Sesame			
	seeds			

EVALUATION	Product name
	Ingredients
	Preparation time

MARKETING PRESENTATION Each team member should present at least one of the following aspects of food product development: selection of ingredients, nutritional value, ease of preparation, sensory characteristics.

COMMERCIALIZATION

The product that you develop will need to meet all aspects of labeling requirements including principal display panel, nutritional label, and ingredient listing. Your team will be evaluated on this being done correctly. **Information about labeling can be found at:**

https://www.fda.gov/food/guidanceregulation/guidancedocumentsregulatoryinformation/labelingnutrition/ucm2006828.htm.

RESOURCES FOR DETERMINING NUTRIENT INFORMATION

USDA Food Composition Database

Downloadable data sets prepared by the **USDA** Nutrient Data Laboratory with nutrient values of foods. https://ndb.nal.usda.gov/ndb/

SPECIFIC REQUIREMENTS

- Suitability of product as a high fiber sports energy bar
- Ingredients should be listed in order of amounts used in product.
- All required parts of the principle display panel should be there.
- All required elements on the Information Panel
- Correct relative placement of PDP and Information Panel
- Appealing PDP and Creative Character
- Reasonably close nutritional panel
- Ability to answer questions about the product.
- All members participate in presentation.

Team Presentation Scorecard

CHAPTER NAME

CRITERION	POSSIBLE POINTS	POINTS EARNED
Objective met – to develop a breakfast/sports bar.	50	
All required parts of the principal display panel (PDP).	50	
All required elements on the Information Panel	50	
Correct relative placement of PDP and Information Panel	50	
Reasonably close nutritional panel	50	
Communication skills/oral presentation (clear, logical, easy to understand, confidence in presentation and the information presented, :	50	
Ability to answer questions about the product.	50	
Did all team members contribute?	50	
OVERALL	400	