## NORTH CAROLINA FFA ASSOCIATION

## 2005 FOOD SCIENCE & TECHNOLOGY CAREER DEVELOPMENT EVENT

## Written Test

## Multiple Choice: Circle the best answer to complete the statements.

1.	Meat, fruits, and vegetables contain between 70 to 90 percent  A. carbohydrates B. protein C. fat D. water
2.	Pudding that is prepared by cooking thickens as it cools dues to the use of  A. milk B. starch C. sugar D. vanilla
3.	Using a process called, liquid vegetable oils are changed to shortening and margarine.  A. hydrogenation B. oxidation C. saturation D. aeration
4.	is an elastic, stretchy protein found in wheat.  A. Myosin B. Casein C. Gluten D. Albumin
5.	Processed food products such as cereals and orange juice may be fortified with  to enhance their nutritional content.  A. stabilizers B. chelators C. antioxidants D. vitamins and minerals
6.	When fruits such as pears, apples, or bananas are cut or bruised, causes the cut surface to become discolored.  A. the maillard reaction B. enzymatic browning C. exposure to light D. catabolism

7.	Since oil and water normally separate because they are immiscible, an can be used to keep these liquids mixed together in solution.  A. invertase B. antimicrobial C. caking agent D. emulsifier
8.	Chemical leavening agents such as baking soda and baking powder produce during baking to lighten or aerate baked goods.  A. carbon monoxide B. carbon dioxide C. sodium bicarbonate D. steam
9.	is scientifically evaluating a new food product such as Pop-Tarts Yogurt Blasts for appearance, odor, taste, and mouthfeel.  A. proximate analysis B. food chemistry C. market analysis D. sensory evaluation
10	A. water B. fat C. protein D. carbohydrate
11	Egg whites, which tend to be basic, have an approximate pH of  A. 8.0 B. 5.9 C. 2.3 D. 6.7
12	The development of vanilla coke to be sold alongside of other coke products would be considered a  A. product rollout  B. market channel  C. product line extension  D. regional promotion
13	A. A, B, C, and D B. A, D, E, and K C. B, C, D, and K D. A, C, D, and K

14. The brown color of oxidized ground beef is due to
A. deoxymyoglobin
B. oxymyoglobin
C. deoxymetmyoglobin
D. metmyoglobin
15. A food contains 7 grams of protein and 3 grams of fat. That would be equivalent to calories.
A. 40
B. 55
C. 75
D. 90
16. A bag of potato chips has a use-by date stamped on the package because the fat in the
chips can develop off-flavors as a result of if the chips are stored too long.  A. antioxidants
B. hyrdrogenation
C. oxidative rancidity
D. esterification
17. A person who is trained to understand the theory of food systems, including the
chemistry, physics, and biology of food and food components is a
A. food scientist
B. dietician
C. nutritionist
D. food service manager
18 is a system for monitoring compliance with health, safety, and product
standards.
A. HACCP
B. Food Safety
C. Quality assurance
D. Sensory evaluation
19. A tomato will soften over time when held at room temperature due to
A. liquification
B. protein denaturation
C. lyophilization
D. enzymatic action
20. The Food Guide Pyramid indicates that the group is where you should
obtain the greatest number of daily servings.
A. milk, yogurt and cheese
B. fats, oils and sweets
C. fruit
D. bread, cereal, rice and pasta

21. The	is the length of time required at a specific temperature to destroy 90% of
the micro	organisms present.
A. D.	-value
B. F-	value
C. L-	value
D. Z-	value
-	ducts that have been irradiated bear on the product label at retail.
	radura
	symbol or term indicating the product has been irradiated
	e term electronically pasteurized
D. the	e term electronically sterilized
23. A food th	at would be rich in omega-3 fatty acids would be
A. la	rd
B. fa	tty fish
C. ol	ive oil
D. bu	itter
24. Cheese cu	ard is primarily composed of coagulated
A. ca	rbohydrate
B. fa	t
C. pr	otein
D. lac	ctose
25. All the es	sential amino acids would most likely be found in one serving of
A. pe	eanuts
B. le	gumes
C. br	an cereal
D he	ef