## 2015 Iowa FFA Association Food Science General Knowledge Examination

#### **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

| <br>1.  | The RDA is revised approximately every<br>a. five<br>b. ten  | yea<br>c.<br>d.   | rs.<br>two<br>three                               |
|---------|--|-------------------|---|
| <br>2.  | Carbohydrates and proteins provide about<br>a. 5<br>b. 2   | _ cal<br>c.<br>d. | ories per gram.<br>4<br>6                         |
| <br>3.  | Most vitamins are measured in<br>a. milligrams<br>b. grams   | c.<br>d.          | liters<br>kilograms                               |
| <br>4.  | Naturally occurring play a role in food co<br>a. enzymes<br>b. sugars                                      | lori<br>c.<br>d.  | ng.<br>pigments<br>carbohydrates                  |
| <br>5.  | or spectrophotometers can be used for me<br>a. Thermometers<br>b. Meters                                   | easu<br>c.<br>d.  | ring transparent foods.<br>Liquid<br>Colorimeters |
| <br>6.  | <ul> <li> can be achieved on the basis of density or</li> <li>a. Separation</li> <li>b. Quality</li> </ul> | siz<br>c.<br>d.   | e and shape.<br>Clarification<br>Flavor           |
| <br>7.  | Sediment and microorganisms can be removed<br>a. tube<br>b. clarifier                                      | cen<br>c.<br>d.   | trifugally in a<br>pan<br>box                     |
| <br>8.  | The most common drying method is dryin<br>a. freeze-<br>b. sun or tray drying                              | ng.<br>c.<br>d.   | spray<br>oven                                     |
| <br>9.  | Microbes that prefer cold temperatures are<br>a. mesophilic<br>b. thermophilic                             | <br>c.<br>d.      | psychrophilic<br>obligative                       |
| <br>10. | Microbial growth slows at temperatures under<br>a. 80<br>b. 70   | c.<br>d.          | _°F.<br>60<br>50                                  |
| <br>11. | are the most heavily used additives.<br>a. Minerals<br>b. Vitamins   | c.<br>d.          | Gums<br>Sweeteners                                |
| <br>12. | Sequestrants are agents.<br>a. cheating<br>b. chelating  | c.<br>d.          | chilling<br>charcoal                              |

| <br>13. | In terms of additives, include both natura                 | l and   | d synthetic colorants.                                    |
|---------|--|---------|---|
|         | a. flavors   | c.      | colors  |
|         | b. gums  | d.      | sweeteners  |
| <br>14. | dissolve in water and are made as powder<br>purpose forms. | s, g    | ranules (small hard pieces), liquids, or other special-   |
|         | a. Dyes  | c.      | Sweeteners  |
|         | b. Lakes   | d.      | Gums  |
| <br>15. | make a food acid or sour.                                  |         |   |
|         | a. Flavorings  | c.      | Colorings   |
|         | b. Texturings  | d.      | Acidulants  |
| <br>16. | Paper used for cartons must come from sa                   | anita   | ary virgin pulp.  |
|         | a. milk  | c.      | eggs  |
|         | b. juice   | d.      | butter  |
| <br>17. | Newer plastic materials for packaging contain              | corn    | starch, which makes them more                             |
|         | a. sanitary  | c.      | expensive   |
|         | b. tough   | d.      | biodegradable   |
| <br>18. | The is the large central portion of the kern               | nel a   | and contains most of the starch.                          |
|         | a. aleurone  | c.      | endosperm   |
|         | b. bran  | d.      | germ  |
| <br>19. | Potato starch begins to at a lower tempera                 | ature   | e than cornstarch.  |
|         | a. burn  | с.      | smell   |
|         | b. gelatinize  | d.      | separate  |
| <br>20. | The presence of encourages the formation                   | ı of    | a gel in cooked and cooled starch mixtures.               |
|         | a. milk  | С.      | carbonydrate  |
|         | b. sugar   | a.      | amyiose   |
| <br>21. | About percent of the proteins of white flo                 | our a   | re relatively insoluble.                                  |
|         | a. 55<br>h 45  | с.<br>а | /5  |
|         | 0. 05  | a.      | 85  |
| <br>22. | The basic foundation of baked products is usua             | lly f   | flour and   |
|         | a. sugar   | c.      | liquid  |
|         | b. eggs  | d.      | leavening   |
| <br>23. | flour has a slightly higher percentage of g                | glute   | en and a much stronger and more elastic gluten than other |
|         | types of flour.  |         |   |
|         | a. Bread   | c.      | Pastry  |
|         | b. Cake  | d.      | Rice  |
| <br>24. | is a soft cheeselike food made by curdling                 | g fre   | sh hot soymilk with a coagulant.                          |
|         | a. Tempeh  | c.      | Yogurt  |
|         | b. Totu  | d.      | Cheddar   |
| <br>25. | The vacuole of a plant is composed of wi                   | th so   | oluble substances dissolved within it.                    |
|         | a. water   | С.      | OII   |
|         | D. Juice   | d.      | minerals  |

| <br>26. | The quality of most fresh vegetables can be judged reasonably well by their appearance.                 |
|---------|---|
|         | a. internal c. leafy  |
|         | b. external d. green  |
| <br>27. | The use of U.S. grade standards for fruits and vegetables is in most cases.                             |
|         | a. required c. confusing  |
|         | b. helpful d. voluntary   |
| 28.     | juice is probably the most commonly processed juice.  |
|         | a. Apple c. Orange  |
|         | b. Lemon d. Cranberry   |
| 29.     | fruits produce ethylene gas during ripening.  |
|         | a. Nonclimacteric c. Orange   |
|         | b. Climacteric d. Tree  |
| 30      | make up the major components of fat butter shortening and oil   |
| <br>50. | make up the major components of rat, butter, shortening, and on.  |
|         | a. Compositos d. Triglycoridos  |
|         | b. Composites d. Higiyeendes  |
| <br>31. | The first step in the refining process of many oils is  |
|         | a. degumming c. bleaching   |
|         | b. refining d. winterization  |
| <br>32. | is a selective process that can be controlled to produce various levels of hardening.                   |
|         | a. Winterization c. Hydrogenization   |
|         | b. Bleaching d. Degumming   |
| <br>33. | Monoglycerides and diglycerides are used as in a variety of foods.                                      |
|         | a. emulsifiers c. calories  |
|         | b. flavor d. color  |
| <br>34. | Grapes for wine are harvested when they contain the optimum balance of and acidity.                     |
|         | a. color c. sugar   |
|         | b. size d. alcohol  |
| 35.     | coffee is prepared by forcing an atomized spray of very strong coffee extract through a jet of hot air. |
|         | a. Decaffeinated c. Black   |
|         | b. Instant d. Espresso  |
| 36      | Which organization issues the National Primary Drinking Water Regulations?                              |
| <br>00. | a EDA c EPA   |
|         | b. NRA d. USA   |
|         |   |
| <br>37. | Turbidity of water is   |
|         | a. taste c. cloudiness  |
|         | b. smell d. content   |
| <br>38. | A successful pollution prevention program requires frequent to keep employees focused and careful.      |
|         | a. cleaning c. expense  |
|         | b. retraining d. reprimanding   |
|         |   |

| <br>39.  | serves as a universal solvent.                                      |   |
|----------|---|---|
|          | a. Water c.   | Bleach  |
|          | b. Soap d.  | Odor  |
|          | 1   |   |
| <br>40.  | . Most pathogenic bacteria are classified as                        |   |
|          | a. psychrotrophic c.  | psychrophilic   |
|          | b. thermotrophic d.   | mesophilic  |
|          |   |   |
| <br>41.  | . Which agency registers chemical sanifizers and anti-<br>surfaces? | microbial agents for use on food and food product contact   |
|          | a EPA c   | USDA  |
|          | h FDA d   | HACCP   |
|          |   |   |
| <br>42.  | . Of the microorganisms, are the greatest threat                    | to food safety.   |
|          | a. viruses c.   | tungi   |
|          | b. parasites d.   | bacteria  |
| <br>43.  | Ingredients on a food label are listed in order, l                  | based on weight.  |
|          | a. descending c.  | alphabetical  |
|          | b. ascending d.   | chronological   |
| 4.4      |   |   |
| <br>44.  | . A daily intake of calories has been established                   | as the daily reference value (DRV).                         |
|          | a. 1,700 c.   | 1,900   |
|          | b. 1,800 d.   | 2,000   |
| 45       | The word on a label means that a product cont                       | ains no amount of or only trivial or "physiologically       |
| <br>ч.Э. | inconsequential" amounts of one or more of these c                  | omponents: fat saturated fat cholesterol sodium sugars      |
|          | and calories  | omponents. rat, saturated rat, enoresteror, sourum, sugars, |
|          | a Low   | Lean  |
|          | h Free d  | Reduced   |
|          | 0. Tite u. 1  | Keudeeu   |
| <br>46.  | . The term can be used on the labels of foods that                  | at can be eaten frequently without exceeding dietary        |
|          | guidelines for one or more of these components: fat,                | saturated fat, cholesterol, sodium, and calories.           |
|          | a. free c.  | lean  |
|          | b. reduced d.   | low   |
|          |   |   |
| <br>47.  | . The DRVs for the energy-producing nutrients are ca                | Iculated as fat based on percent of calories.               |
|          | a. 30 c.  | 25  |
|          | b. 20 d.  | 35  |
| 18       | prepare pies breads rolls muffing cookies of                        | kee icings and frostings, and many other foods              |
| <br>40.  | depending on where they work  | ikes, temps and mostings, and many other toods,             |
|          | a Inspectors  | Putchore  |
|          | a. Inspectors C.  | Chofe   |
|          | U. Dakers u.  | Clicis  |
| <br>49.  | Chefs prepare delicious meals and participate in                    | to show off chefs' talents.                                 |
|          | a. Culinary Olympics c.   | Grand Demonstrations  |
|          | b. Cooking Contests d.  | Worldwide Classes   |
| _        |   |   |
| <br>50.  | play an important role in the development of n                      | ew foods and nonfood uses.                                  |
|          | a. Bakers c.  | Chemists  |
|          | b. Butchers d.  | Inspectors  |
|          |   |   |

## 2015 Iowa FFA Association Food Science General Knowledge Examination Answer Section

#### MULTIPLE CHOICE

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

| 26. | ANS: | В | PTS: | 1 |
|-----|------|---|------|---|
| 27. | ANS: | D | PTS: | 1 |
| 28. | ANS: | С | PTS: | 1 |
| 29. | ANS: | В | PTS: | 1 |
| 30. | ANS: | D | PTS: | 1 |
| 31. | ANS: | А | PTS: | 1 |
| 32. | ANS: | С | PTS: | 1 |
| 33. | ANS: | А | PTS: | 1 |
| 34. | ANS: | С | PTS: | 1 |
| 35. | ANS: | В | PTS: | 1 |
| 36. | ANS: | С | PTS: | 1 |
| 37. | ANS: | С | PTS: | 1 |
| 38. | ANS: | В | PTS: | 1 |
| 39. | ANS: | А | PTS: | 1 |
| 40. | ANS: | D | PTS: | 1 |
| 41. | ANS: | А | PTS: | 1 |
| 42. | ANS: | D | PTS: | 1 |
| 43. | ANS: | А | PTS: | 1 |
| 44. | ANS: | D | PTS: | 1 |
| 45. | ANS: | В | PTS: | 1 |
| 46. | ANS: | D | PTS: | 1 |
| 47. | ANS: | А | PTS: | 1 |
| 48. | ANS: | В | PTS: | 1 |
| 49. | ANS: | А | PTS: | 1 |
| 50. | ANS: | С | PTS: | 1 |

## 2015 Iowa FFA Food Science CDE Food Safety and Quality Section Response to Consumer Complaint

The Consumer Affairs Department at Breakfast Shack 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.

#### Dear Sirs:

I purchased your whole grain flour from Breakfast Shack at your farmers market stand last week for my family. We love all your products. We made pancakes with your flour on Sunday and they were delicious. However, on Monday morning when I went to make the kids more pancakes, I noticed that there were black specks in the bag of flour and some of them were moving like bugs. I stored the flour in the cabinet above the stove and it can get very hot. My husband thought this was disgusting and told me to throw it away. Is the flour safe to eat? We decided to throw out the flour, but wanted to ask a few questions in case we see this problem again.

- 1. What caused the black specks?
- 2. What are the moving bugs in my flour?
- 3. Will I get sick from eating the flour?
- 4. Is there anything I can do to correct the problem or should I just throw it out?
- 5. What will your company do to make sure that there are no more black specks and bugs in my flour in the future?

I look forward to hearing from you.

Thank you. Amber Peek

|                           | 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 4, 2015 50 points

| School Name       |
|-------------------|
| Name              |
| Contestant Number |

Score \_\_\_\_\_/<u>50</u>\_\_\_\_

Complete your response in the box below:

## **2015 Iowa FFA Food Science CDE** Food Safety and Sanitation Section – Student Exercise

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







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

- a. Botulism
- b. Salmonella
- c. Listeria
- d. Staphylococcus
- 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 Crosscontamination 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.



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

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

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 Crosscontamination of foods; and wash hands after contact with animal feces and/or reptiles.





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

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

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
- 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. Home canned products need to use higher level acids, follow strict hygienic procedures, and prepare foods using high temperatures.
- e. Do not eat raw or undercooked eggs, poultry, or meat; avoid Crosscontamination of foods; and wash hands after contact with animal feces and/or reptiles.



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

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

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.
- b. Sterilize raw foods at the plants, pasteurization, and improving safe food handling practices in kitchens
- c. Increased regulations; over-use promotes emergence of resistant bacteria; and regulated usages to minimize residues in the human food chain.
- d. 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.
- e. 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.

Set 5:



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

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

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

- a. 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.
- b. Home made or processed foods need to be properly stored; when preparing foods, remember to prepare foods under sanitary conditions; if food is to be stored longer than two hours, keep hot foods hot (over 140°F) and cold foods cold (40°F or under).
- 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. Handle poultry carefully to prevent cross-contamination; utilize proper wrapping; and most egg products should be pasteurized.
- e. Do not eat raw or undercooked eggs, poultry, or meat; avoid Crosscontamination of foods; and wash hands after contact with animal feces and/or reptiles.

## Food Safety and Sanitation Section – Student Exercise Key

- 1. B
- 2. D
- 3. B
- 4. A
- 5. D
- 6. C 7. E
- 7. E 8. B
- 9. A
- 10. B

## 2015 FFA Food Science Product Development Career Development Event Development of a Trail Mix/Granola Snack

#### **Background:**

The most recent Dietary Guidelines for Americans places stronger emphasis on reducing calorie consumption and increasing physical activity for individuals of all ages. Trail mix and granola snacks (including bars) are often advertised as a healthy snack for active individuals; however market research shows that these products are not being purchased or consumed by many consumers in the target age range of 13 - 25 years old. As a result, we are requesting the creation of a trail mix /granola snack that will appeal to active teens and young adults, both male and female, ranging in age from approximately 13 - 25.

#### **Objective:**

Your team needs to develop a trail mix/bar/snack to encourage healthy eating and increased activity among teens and young adults. Remember, your team needs to address important points such as: nutrition, quality control, food safety, and formulations. In other words, explain why you chose to create the product you created and how such a product meets the needs described above. You also need to identify a catchy name for this product and design the front label (PDP) with the required information, so as to attract the target audience. This is a team event and it is very important for your group to equally present material and provide answers to the judges' questions.

Teams should also prepare the nutritional analysis label (based on a serving size) for the product.

Your target nutrient guidelines are:

- Serving size: No more than 40 g
- Fat: Less than 8 g
- Protein: At least 5 g
- Carbohydrates (total): No more than 20 g
- Calories: Less than 180 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 individuals, 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 minutes to present and 5 minutes 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. It is expected the product to include at least two ingredients from the fruits, nuts, and starches categories and at least one ingredient from the candy or confection category. Select items from the following categories:

| Fruits                                | Candies           | Nuts               | Starches        |
|---------------------------------------|-------------------|--------------------|-----------------|
| Raisins                               | M & M's           | Peanuts            | Goldfish        |
| Craisins                              | Red Hots          | Almonds            | Melba Toast     |
| Dried Pineapple                       | Skittles          | Pistachios         | Corn Chex       |
| Dried Mango                           | Jelly Beans       | Walnuts            | Multi-bran Chex |
| Yogurt covered<br>raisins (chocolate) | Twizzler<br>bites | Sunflower<br>Seeds | Rice Chex       |
| Dried Apricots                        | Sesame seeds      | Cashews            | Pretzels        |
| Dried Apples                          |                   | Macadamias         | Cheerios        |
| Prunes                                |                   |                    |                 |
| Dates                                 |                   |                    |                 |
| Banana Chips                          |                   |                    |                 |

#### **Evaluation:**

| Product Name:     |  |
|-------------------|--|
|                   |  |
| Ingredients Used: |  |
| -                 |  |

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:** <u>http://www.fda.gov/food/ingredientspackaginglabeling/default.htm</u>

#### **RESOURCES FOR DETERMINING NUTRIENT INFORMATION**

 Nutrient Data Laboratory Downloadable data sets prepared by the USDA Nutrient Data Laboratory with nutrient values of foods. <u>http://www.ars.usda.gov/main/site\_main.htm?modecode=12-35-45-00</u>

#### 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.

# Chapter Name

| CRITERION for 2015 CDE  | POSSIBLE<br>POINTS | POINTS<br>EARNED |
|---|--------------------|------------------|
| Objective met – to develop a <u>trail mix/granola</u><br><u>snack</u>   | 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<br>Panel  | 50                 |                  |
| Reasonably close nutritional panel  | 50                 |                  |
| Communication skills/oral presentation (clear,<br>logical, easy to understand, confidence in<br>presentation and the information presented. | 50                 |                  |
| Ability to answer questions about the product.  | 50                 |                  |
| Did all team members contribute?  | 50                 |                  |
| OVERALL   | 400                |                  |