National FFA Organization 2018 Meats Evaluation & Technology CDE Written Test

Instructions: Carefully read each item and possible answers. Mark the correct answer on the correct CDE form. Completely fill the chosen ovals to indicate your answers.

- 1. According to FSIS, which of the following applies to meat labeled as "Natural"?
 - A. No added color
 - B. No artificial ingredients
 - C. Minimally processed
 - D. All of the above apply to meat labeled as "Natural"

(CEV Meat Science & Food Safety slide #84)

- 2. Growth-Promoting Implants are NOT approved for use in which species?
 - A. Hormonal implants are approved for use in all species.
 - B. Cattle
 - C. Sheep
 - D. Swine

(CEV Meat Science & Food Safety slide #30)

- 3. After a power outage, meat in the refrigerator is safe for 6 to 8 hours, unless meat temperature rises above _____ for more than 2 hours.
 - A. 10°F
 - B. 20°F
 - C. 30°F
 - D. 40°F

(CEV Meat Science & Food Safety slide #111)

- 4. Which of the following is a primal cut of lamb?
 - A. Breast
 - B. Brisket
 - C. Ham
 - D. Round

(CEV Meat Science & Food Safety slide #64)

- 5. Meat should be defrosted in all of the following ways EXCEPT
 - A. In a microwave oven
 - B. In a refrigerator
 - C. In cold water
 - D. On a countertop at room temperature

(CEV Meat Science & Food Safety slide #117)

- 6. Which of the following statements is true of Water-Added Ham?
 - A. It must be the entire hind leg of a hog.
 - B. It shall not contain more than 30% of the fresh ham in added moisture.
 - C. It can be made from the Boston or picnic shoulder.
 - D. It uses water as an essential part of the curing process.

(CEV Meat Science & Food Safety slide #68)

- 7. In meat products, what is the major reason for net weight loss from packaging to counter?
 - A. Fat evaporation
 - B. Loss of vitamins and minerals
 - C. Moisture loss
 - D. Protein breakdown

(CEV Meat Science & Food Safety slide #75)

- 8. Generally, three ounces of lean lamb contains 74 percent of the recommended daily allowance (RDA) for ____.
 - A. Carbohydrates
 - B. Protein
 - C. Vitamin B12
 - D. Zinc

(CEV Meat Science & Food Safety slide #57)

- 9. What compounds are used to absorb oxygen, reducing or preventing the oxidation of food?
 - A. Anaerobicoxidants
 - B. Antioxidants
 - C. Curing Corroders
 - D. Oxygen Inhibitors

(CEV Meat Science & Food Safety slide #160)

- 10. Maturity classes divide meat into categories based on age. Which of the following utilize maturity classes?
 - A. Cattle & Pork
 - B. Cattle & Sheep
 - C. Goats & Pork
 - D. Pork & Sheep

(CEV Meat Science & Food Safety slide #85)

11. All of the following are plant enzymes used to tenderize meat EXCEPT

- A. Bromelain
- B. Ficin
- C. Neotame
- D. Papain

(CEV Meat Science & Food Safety slide #168)

- 12. Riboflavin is an example of these water soluble vitamins.
 - A. A Vitamins
 - B. B Vitamins
 - C. C Vitamins
 - D. D Vitamins

(CEV Meat Science & Food Safety slide #53)

- 13. What is another term for Cold Cuts?
 - A. Cured meats
 - B. Luncheon meats
 - C. Meat by-products
 - D. Variety meats

(CEV Meat Science & Food Safety slide #154)

- 14. Which of the following is the thin myofilament in the muscle sarcomere?
 - A. Actin
 - B. Actosin
 - C. Bundle
 - D. Myosin

(CEV Meat Science & Food Safety slide #59)

- 15. What should be done to pre-cooked sausages (such as frankfurters) when using a microwave oven?
 - A. Cut off the ends to allow expansion
 - B. Keep the casings whole to preserve moisture
 - C. Pierce the casings to vent steam
 - D. Split the sausage in quarters to assure even cooking

(CEV Meat Science & Food Safety slide #145)

- 16. This important piece of legislation was enacted the same day as the Meat Inspection Act. It prohibited the sale, manufacture and transportation of adulterated food products.
 - A. Food and Drug Act
 - B. Packers and Stockyards Act
 - C. Pure Food and Drug Act
 - D. Wholesome Meat Act

(CEV Meat Science & Food Safety slide #12)

- 17. The Meat Inspection Act of 1906 was prompted by which book by Upton Sinclair?
 - A. Charlotte's Web
 - B. FSIS Standards
 - C. The Jungle
 - D. The Meat We Eat

(CEV Meat Science & Food Safety slide #10)

18. What does the acronym HACCP stand for?

- A. Hazmat Critical Control Point
- B. Hazard Analysis Critical Control Point
- C. Hazard Awareness Critical Collection Program
- D. Harmful Analysis Crucial Control Program

(CEV Meat Science & Food Safety slide #20)

- 19. Handling leftovers should have the ultimate goal of _____ to slow bacterial growth.
 - A. fast cooling
 - B. fast heating
 - C. slow cooling
 - D. slow heating

(CEV Meat Science & Food Safety slide #121)

- 20. Due to regulations concerning BSE, downer cattle cannot be harvested for human or animal consumption. What is BSE?
 - A. Bovine Spondilosys Endoscopy
 - B. Bovine Spongiform Encephalopathy
 - C. Breed Sporozoite Encephalopathy
 - D. Breed Sustained Embryotomy

(CEV Meat Science & Food Safety slide #39)

- 21. When is it better to use a dry cooking method?
 - A. For cuts with large amounts of connective tissue
 - B. For ground products
 - C. For less tender cuts
 - D. For lower quality cuts

(CEV Meat Science & Food Safety slide #131)

- 22. All of the following are true about water in the meat industry EXCEPT
 - A. Water aids in evisceration
 - B. Water is essential to all life processes
 - C. Water makes hide removal more difficult
 - D. Water must be provided to livestock through the life cycle until the point of harvest (CEV Meat Science & Food Safety slide #36)
- 23. When smoking meats, two thermometers are recommended. One thermometer is used to measure the internal temperature of the meat. What should the other thermometer measure?
 - A. The air temperature of the smoker
 - B. The surface temperature of the meat
 - C. The internal temperature of the meat taken at a second location
 - D. The temperature outside of the smoker

(CEV Meat Science & Food Safety slide #142)

- 24. What is a synthetic chemical that shifts nutrients away from fat production to the promotion of lean muscle growth?
 - A. Antibiotic
 - B. Beta-agonist
 - C. Growth-Promoting Implant
 - D. Zeranal

(CEV Meat Science & Food Safety slide #31)

- 25. Which piece of legislation passed in 1921 resulted in the monitoring of scales and brands?
 - A. Meat Inspection Act
 - B. Packers and Stockyards Act
 - C. Pure Food and Drug Act
 - D. Uniform Wholesale Act

(CEV Meat Science & Food Safety slide #13 & #9)

- 26. When did labeling begin as a result of the Nutritional Labeling & Education Act?
 - A. January 1973
 - B. December 1979
 - C. January 1990
 - D. January 2012

(CEV Meat Science & Food Safety slide #23)

- 27. What is used to retard mold growth on the outside of dried sausages?
 - A. Di-Glycerides
 - B. Isolated Soy Proteins
 - C. Lecithin
 - D. Potassium Sorbate

(CEV Meat Science & Food Safety slide #169)

- 28. Which of the following specifies that meat be held for ten days to six weeks at 34°F to 38°F in a humidity controlled cooler?
 - A. Brine aging
 - B. Dry aging
 - C. Smoking
 - D. Wet aging

(CEV Meat Science & Food Safety slide #80)

29. Which of the following are the proper storage temperatures?

- A. Below 32°F for cold products and above 140°F for hot products
- B. Below 32°F for cold products and above 165°F for hot products
- C. Below 40°F for cold products and above 140°F for hot products
- D. Below 40°F for cold products and above 165°F for hot products (CEV Meat Science & Food Safety slide #180)
- 30. Which nutrient is essential for the absorption of vitamins A, D, E, and K?
 - A. Carbohydrates
 - B. Fat
 - C. Minerals
 - D. Protein

(CEV Meat Science & Food Safety slide #49)

- 31. Which of the following is the most common cause of foodborne illness?
 - A. Mishandling food
 - B. Misidentifying meats
 - C. Misreading labels
 - D. Mistreating animals

(CEV Meat Science & Food Safety slide #182)

- 32. For a maturity score "A" beef carcass to make quality grade Choice^o (Average Choice) the marbling score should be ____.
 - A. Moderate⁰⁻¹⁰⁰
 - B. Modest⁰⁻¹⁰⁰
 - C. Slightly Abundant⁰⁻¹⁰⁰
 - D. Small⁰⁻¹⁰⁰

(CEV Meat Science & Food Safety slide #93)

- 33. Which type of meat cookery uses heated air circulated around the meat by a fan?
 - A. Convection Oven
 - B. Grilling
 - C. Microwave Oven
 - D. Smoking

(CEV Meat Science & Food Safety slide #135)

- 34. Food is deemed "____" unless it has a nutritional label.
 - A. Misappropriated
 - B. Misbranded
 - C. Misregulated
 - D. Mistaken

(CEV Meat Science & Food Safety slide #21)

- 35. Which meat cookery method is recommended for thinner sliced meats?
 - A. Broiling
 - B. Pan Frying
 - C. Roasting
 - D. Stewing

(CEV Meat Science & Food Safety slide #139)

- 36. Which of the following is the correct recommended refrigerated storage time?
 - A. Fresh, Uncooked Beef = 6-8 days
 - B. Frankfurters = 2-3 weeks
 - C. Fresh, Uncooked Ground meats = 4-6 days
 - D. Sausage = 1 week

(CEV Meat Science & Food Safety slides #103 & #104)

- 37. What is the primary function of phosphates as processed meat additives?
 - A. They add to nutritional value.
 - B. They aid in drying the product.
 - C. They increase water holding capacity.
 - D. They keep ingredients and seasonings evenly distributed throughout the mix. (CEV Meat Science & Food Safety slide #171)
- 38. Prime, Choice, Good, Utility, and Cull are all quality grades for which species?
 - A. Beef
 - B. Exotics
 - C. Lamb
 - D. Pork

(CEV Meat Science & Food Safety slide #98)

- 39. Which nutrient's primary function is to aid in the repair and maintenance of body cells?
 - A. Carbohydrate
 - B. Fat
 - C. Protein
 - D. Water

- 40. In order to aid in evisceration and reduce microbial contamination, feed is withheld from animals _____ prior to slaughter.
 - A. 6 hours
 - B. 12 hours
 - C. 1 day
 - D. 2 days

(CEV Meat Science & Food Safety slide #37)

- 41. Improperly cooked beef products have been commonly associated with Trichinosis.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #191)

- 42. If an antibiotic has been used to treat a disease, the animal will lose its organic status.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #82)

⁽CEV Meat Science & Food Safety slide #46)

43. In the beef carcass, physiological age is an estimate of the actual chronological age.

- A. True
- B. False

(CEV Meat Science & Food Safety slide #90)

- 44. Lysine is an essential amino acid found in meat.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #47)

- 45. Over 12,000 species of Salmonella cause illness when ingested.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #189)

46. Pan broiling is recommended for steaks and chops more than 2 inches thick.

- A. True
- B. False

(CEV Meat Science & Food Safety slide #138)

- 47. Re-Freezing meat causes no deterioration of quality as long as it is done correctly.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #112)

- 48. "Shoulder" is a primal cut found in the beef carcass.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #62)

- 49. Trichinella spiralis is a nematode worm.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #191)

- 50. Uniform retail meat identity standards were implemented in 1973. This established a single, specific name for each basic retail cut.
 - A. True
 - B. False

(CEV Meat Science & Food Safety slide #17)

National FFA Organization 2018 Meats Evaluation & Technology CDE Written Test

KEY	
1. D	26. D
2. D	27. D
3. D	28. B
4. A	29. C
5. D	30. B
6. D	31. A
7. C	32. B
8. C	33. A
9. B	34. B
10. B	35. B
11. C	36. D
12. B	37. C
13. B	38. C
14. A	39. C
15. C	40. B
16. C	41. B
17. C	42. A
18. B	43. A
19. A	44. A
20. B	45. B
21. B	46. B
22. C	47. B
23. A	48. B
24. B	49. A
25. B	50. A
20.2	