

Instructions: This test consists of 50 multiple-choice questions. Answers must be recorded on your Scantron sheet in the "Exam" section. Each question is worth five (5) points for a total of 250 points possible.

| | | | | | |
|----------|--|----------------|----------------|----------------|----------------|
| 1 | In what year was the PDCA Dairy Cow Unified Score Card most recently revised? | A. 1940 | B. 1965 | C. 1994 | D. 2009 |
|----------|--|----------------|----------------|----------------|----------------|

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|----------|---|-------------------------|-----------------------------|--------------------------|-----------------------|
| 2 | Where is the National Dairy Shrine Museum located? | A. Arlington, VA | B. Fort Atkinson, WI | C. Louisville, KY | D. Madison, WI |
|----------|---|-------------------------|-----------------------------|--------------------------|-----------------------|

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|----------|--|-------------------|------------------|-----------------------|--------------------|
| 3 | Where did Milking Shorthorn cattle originate? | A. England | B. France | C. Netherlands | D. Scotland |
|----------|--|-------------------|------------------|-----------------------|--------------------|

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| 4 | How many points are assigned to "dairy strength" on the PDCA Dairy Cow Unified Scorecard? | A. 15 | B. 20 | C. 25 | D. 40 |
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| 5 | If colostrum is pasteurized, it should be heated to 140°F for how long? | A. 2 seconds | B. 15 seconds | C. 30 minutes | D. 60 minutes |
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| 6 | What is feed material found in the small intestine called? | A. Chyme | B. Crude protein | C. Cud | D. Dry matter |
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| 7 | What is the period of time from three weeks prior to calving to three weeks after calving called? | A. Dry period | B. Days open | C. Gestation | D. Transition period |
|----------|--|----------------------|---------------------|---------------------|-----------------------------|

| | | | | | |
|----------|--|-----------------|-------------------|--------------------|-----------------------|
| 8 | What type of mastitis continues over a long period of time, with progressive development of scar tissue and simultaneous reduction in milk yield? | A. Acute | B. Chronic | C. Clinical | D. Subclinical |
|----------|--|-----------------|-------------------|--------------------|-----------------------|

| | | | | | |
|----------|--|--------------------|--------------------|------------------------|---------------------|
| 9 | What hormone causes milk letdown? | A. Estrogen | B. Oxytocin | C. Progesterone | D. Prolactin |
|----------|--|--------------------|--------------------|------------------------|---------------------|

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|-----------|---|-------------------------|-------------------------|--------------------------|---------------------------|
| 10 | What is the process by which vitamins are added to milk? | A. Clarification | B. Fortification | C. Homogenization | D. Standardization |
|-----------|---|-------------------------|-------------------------|--------------------------|---------------------------|

| | | | | | |
|-----------|--|-------------------|--------------------|---------------------|--------------------|
| 11 | Butter belongs to which milk class? | A. Class I | B. Class II | C. Class III | D. Class IV |
|-----------|--|-------------------|--------------------|---------------------|--------------------|

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|-----------|---|-------------|-------------|--------------|--------------|
| 12 | How many Federal Milk Marketing Orders currently exist in the United States? | A. 6 | B. 7 | C. 10 | D. 11 |
|-----------|---|-------------|-------------|--------------|--------------|

| | | | | | |
|-----------|--|-----------------|--------------------|--------------------|---------------------|
| 13 | What state ranked first for corn silage and alfalfa production in 2018? | A. Idaho | B. New York | C. Michigan | D. Wisconsin |
|-----------|--|-----------------|--------------------|--------------------|---------------------|

-
- 14** What term is given for the percent of cows that become pregnant out of those cows eligible to become pregnant in a given period of time, usually 21 days?
- A. Conception rate B. Percent successful C. Pregnancy rate D. Services per pregnancy
-
- 15** What is the time period after calving when the dairy farmer chooses not to breed a cow called?
- A. Calving interval B. Days open C. Days to first service D. Voluntary waiting period
-
- 16** What calving ease score would be assigned if considerable force was required for the delivery?
- A. 2 B. 3 C. 4 D. 5
-
- 17** Which of the following is an example of an undesirable recessive trait in Holsteins?
- A. Brachyspina B. Limber legs C. Spiderleg D. Weaver
-
- 18** What instrument is used to puncture the rumen in cases of bloat?
- A. Balling gun B. Cryoscope C. Elastrator D. Trocar
-
- 19** A magnet is often given to a dairy animal to prevent what disease?
- A. Displaced abomasum B. Hardware disease C. Ketosis D. Milk fever
-
- 20** What type of fly spreads pinkeye?
- A. Deer fly B. Face fly C. Heel fly D. Horn fly
-
- 21** The first dairy cattle A.I. organization was founded in what country?
- A. Denmark B. Germany C. Netherlands D. United States
-
- 22** In what year were bulk tanks first used on dairy farms?
- A. 1885 B. 1938 C. 1965 D. 1970
-
- 23** In what state is the headquarters of the National Milk Producers Federation located?
- A. California B. New York C. Virginia D. Wisconsin
-
- 24** According to the Dairy Showmanship Evaluation Card, how is unsportsmanlike conduct classified?
- A. Slight discrimination B. Moderate discrimination C. Serious discrimination D. Disqualification
-
- 25** What do you call milk harvested from the second, third, and fourth milking after calving?
- A. Foremilk B. Raw milk C. Residual milk D. Transition milk
-
- 26** A pre-weaned calf should be fed what percent of its bodyweight in milk or milk replacer daily?
- A. 2-5 B. 10-17 C. 22-28 D. 30-35
-
- 27** What is the most important factor to consider in determining when to breed a heifer for the first time?
- A. Age B. Body size C. Breed D. Grain intake
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- 28 What type of protein passes through the rumen and is unchanged by microbes?**
- A. Crude protein B. Rumen degradable protein C. Rumen undegradable protein D. Soluble protein
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- 29 The duodenum, jejunum, and ileum are segments of what part of the cow's digestive system?**
- A. Esophagus B. Large intestine C. Small intestine D. Stomach
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- 30 Which of the following is considered a macronutrient in dairy cattle nutrition?**
- A. Calcium B. Copper C. Iodine D. Zinc
-
- 31 What is the period of time when a cow is in milk?**
- A. Calving interval B. Dry period C. Gestation D. Lactation
-
- 32 What mastitis-related cost is responsible for 64% of the economic loss due to mastitis?**
- A. Discarded milk B. Drugs C. Labor D. Reduced milk production
-
- 33 Which of the following is classified as a contagious mastitis pathogen?**
- A. E. coli B. Staph. aureus C. Strep. dysgalactiae D. Strep. Users
-
- 34 What instrument is used to test the freezing point of milk to determine if water has been added?**
- A. Brix refractometer B. Colostrometer C. Cryoscope D. Trocar
-
- 35 Cream by definition must contain at least what percent fat?**
- A. 3.5% B. 8.75% C. 18% D. 80%
-
- 36 How many calories are in a cup of whole milk?**
- A. 80 B. 100 C. 120 D. 150
-
- 37 What fast food chain uses the most milk in the United States?**
- A. Burger King B. Dairy Queen C. McDonald's D. Wendy's
-
- 38 Which state produced the most milk per cow in 2018?**
- A. Arizona B. California C. New Mexico D. Michigan
-
- 39 What is the standard length of a DHIA record?**
- A. 60 days B. 180 days C. 305 days D. 365 days
-
- 40 In 2018 what country sold the most dairy products to the United States?**
- A. Canada B. China C. New Zealand D. Mexico
-
- 41 In dairy cattle reproduction what term is used for days from calving until conception or successful breeding date?**
- A. Calving interval B. Days open C. Days to first service D. Voluntary waiting period
-

42 What is the most reliable sign of estrus?

- A. Bellowing B. Mounting other cows C. Restlessness D. Standing to be mounted
-

43 What hormone is triggered by the calf in response to stress to initiate parturition?

- A. Cortisol B. Estrogen C. Prolactin D. Progesterone
-

44 Retained placenta incidence is highest during what season?

- A. Winter B. Spring C. Summer D. Fall
-

45 What is the basic unit of inheritance?

- A. Allele B. Chromosome C. Gene D. Loci
-

46 How often is the genetic base for dairy cattle genetic evaluations updated?

- A. Monthly B. Quarterly C. Annually D. Every 5 years
-

47 What is the common name for dystocia?

- A. Calving difficulty B. Circling disease C. Hardware disease D. Milk fever
-

48 Undulant fever is the human equivalent of what disease in cattle?

- A. Brucellosis B. Johne's disease C. Mad cow disease D. Milk fever
-

49 Which of the following is an example of an internal parasite found in dairy cattle?

- A. Coccidia B. Flies C. Lice D. Ticks
-

50 Fertilizer numbers have three important numbers. The first number is the amount of _____ in the fertilizer.

- A. Calcium B. Nitrogen C. Phosphate D. Potash
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