

Junior Quiz Questions

1. Which of the following is **not** a beef primal?
 - a. Chuck
 - b. Round
 - c. Loin
 - d. T-Bone
2. What is creep feeding?
 - a. Feeding steers in a feedlot
 - b. Feeding show heifers
 - c. Feeding calves that are not yet weaned away from their mothers
 - d. Feeding bulls to develop them to a two-year-old
3. Which body condition score would indicate a cow is too fat?
 - a. 2
 - b. 4
 - c. 6
 - d. 8
4. What is the most common reason for a fever?
 - a. Lots of water intake
 - b. Getting sick/disease
 - c. High rest time
 - d. Thin hair coat
5. Bovine foot rot is caused by which of the following:
 - a. Moist conditions
 - b. Mud
 - c. Lots of stones on ground
 - d. All of the above
6. What color were the original Simmentals in the 1800's and early 1900's?
 - a. Red and black
 - b. Red and white
 - c. Solid red
 - d. Solid white
7. Who is the AJSA Junior Board President for the 2015-2016 year?
 - a. Morgan Phillips
 - b. Emily Lochner
 - c. Wade Shafer
 - d. Fred Schuetze
8. Which breed of cattle was developed in a hot environment to be used for disease resistance, heat tolerance and hardiness?
 - a. Chianina
 - b. Maine Anjou
 - c. Angus
 - d. Brahman

9. Which of the following is an **undesirable** trait in a market steer?
- Heavy Muscle
 - Long, level rump
 - Narrow, light muscled base**
 - Clean, tight neck
10. What is the term for a "naturally hornless" animal?
- Horn-free
 - Polled**
 - Dehorned
 - Healthy
11. Where is the American Simmental Association headquarters located?
- San Antonio, Texas
 - Denver, Colorado
 - Bozeman, Montana**
 - Omaha, Nebraska
12. What country did Simmental originate from?
- United States
 - Switzerland**
 - France
 - Mexico
13. Which of the following is **not** something you would use to fit/groom your animal for show?
- Clippers
 - Adhesive
 - Scotch comb
 - Pitchfork**
14. Which of the following is **not** a permanent means of identification?
- Hot iron brand
 - Freeze brand
 - Tattoo
 - Ear tag**
15. Which nutrient is the most critical for beef cattle?
- Minerals
 - Fats
 - Carbohydrates
 - Water**
16. Originally called Durhams, this breed can be red, white, or red and white roan in color and is known for their milk production.
- Angus
 - Brangus
 - Shorthorn**
 - Limousin
17. What is the international letter code assigned to cattle born in 2016?
- A
 - B

- c. C
- d. D

18. What is the highest quality grade a beef carcass can receive?

- a. Prime
- b. Choice
- c. Select
- d. Standard

19. How long is a cow's gestation length?

- a. 4 months
- b. 7 months
- c. 9 months
- d. 12 months

20. What is the normal body temperature for a beef animal?

- a. 98.6 degrees
- b. 101.5 degrees
- c. 105.8 degrees
- d. 108.5 degrees

21. What does U.S.D.A. stand for?

- a. United States Department of Agriculture
- b. United Services of Departmental Animals
- c. United Simmental District Administrators
- d. Unified Simmental Department of Action

22. When a veterinarian inserts his arm into the cows rectum and determines length of pregnancy, this is called:

- a. Parturition
- b. Palpation
- c. Maturation
- d. Salivation

23. What area of the animal's body would a growth hormone be placed?

- a. Hip
- b. Neck
- c. Ear
- d. Shoulder

24. What is the #1 type of cancer in cattle?

- a. Eye
- b. Liver
- c. Lung
- d. Skin

25. What is the ideal pregnancy rate for after a 60-day breeding season?

- a. 25-30%
- b. 45-50%
- c. 70-75%
- d. 85-90%

26. What is the yield grade an animal receive if it were extremely fat, with an incredibly small ribeye size?

- a. 1
- b. 2
- c. 4
- d. 5

27. Which of the following is **not** a trait or index recognized by the American Simmental Association?
- a. Birth Weight
 - b. Post-Birth Weight
 - c. Carcass Weight
 - d. Warner-Bratzler Shear Force (WBSF)
28. Which of the following tool(s) could be used to castrate a bull calf?
- a. Elastrator
 - b. CIDR
 - c. Ralgro
 - d. All of the above
29. True/False: A beef product labeled "organic" must be grass fed?
- a. True
 - b. False
30. What is the name of the new coat color variant American Simmental Association just released?
- a. Wild Type
 - b. Red Charlie
 - c. Diluter
 - d. Black Charlie
31. True/False: An antibiotic would help cure a viral illness?
- a. True
 - b. False
32. Which of the following could be considered a "roughage" in a heifers diet?
- a. Beet pulp
 - b. Corn
 - c. Cottonseed hulls
 - d. Molasses
33. What is the purpose of the index "TI"?
- a. For use on Simmental cows, with all offspring being sent to feedlot
 - b. For use on Simmental cows, with 25% heifers retained, the remaining offspring sent to feedlot
 - c. For use on Angus cows, with all offspring being sent to feedlot
 - d. For use on Angus cows, with 25% heifers retained, the remaining offspring sent to feedlot
34. The Veterinary Feed Directive was recently released by the Food and Drug Administration to monitor antibiotic use in which of the following:
- a. Vaccination use only
 - b. Vaccinations and feed use
 - c. Feed use only
 - d. None of the above
35. True/False: A Simmental is considered a Bos Indicus animal?
- a. True

b. False

36. If a homozygous black bull is bred to a red cow, what is the chance that the resulting progeny will be homozygous black? (Hint: draw out your Punnett square.)

- a. 0%
- b. 25%
- c. 75%
- d. 100%

37. Which of the following would be considered a SimGenetics animal?

- a. 1/2 Simmental, 1/4 Maine Anjou, 1/4 Angus
- b. 1/4 Simmental, 3/4 Chianina
- c. 11/16 Simmental, 5/16 Shorthorn
- d. All of the above

38. The top 10% of Birth Weight is a -0.4. Which of the following bulls would fall into the upper percentile ranking?

- a. Bull A: Birth Weight EPD -0.15
- b. Bull B: Birth Weight EPD -0.5
- c. Bull C: Birth Weight EPD 0.1
- d. Bull D: Birth Weight EPD 2.0

39. Which of the following is not a publication produced by the ASA or its affiliates?

- a. The Hotwire
- b. The Simmental
- c. The Register
- d. Sim Talk

40. Which of the following statements is true regarding Simbrahs?

- a. Simbrah's have their own association (The International Simbrah Organization) and have nothing to do with the ASA
- b. Simbrah's have their own association (The International Simbrah Organization) but their registrations come through the ASA office
- c. Simbrah's are an integrated part of the ASA, just as equally as SimGenetics, SimAngus, etc.
- d. None of the above apply

41. When figuring weaning weight, which of the following is **not** used to determine the EPD?

- a. Age of the calf
- b. Sex of the calf
- c. Age of the cow
- d. Age of the bull

Use the following data for use on questions 42 -45.

Bull A

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	14.1	0.3	78.3	123.3	0.28	12.9	59.9	35.7	-0.29	0.20	-.07	1.08

Bull B

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	20.2	-4.5	47.7	72.3	0.15	34.5	58.4	14.2	-0.46	-0.46	-.05	2.31

42. Cow/Calf producer Joe Smith breeds his Angus heifers and cows to Simmental bulls. It is very important to him that the Simmental bull provide a lot of growth - which bull would be better suited for Mr. Smith?

- a. Bull A
- b. Bull B

43. Cow/Calf producer Joe Smith noticed that his SimAngus cows had a lot of trouble calving during last spring's calf crop. Which bull would you advise he use this year?

- a. Bull A
- b. Bull B

44. Tommy Tuesday owns a feedyard in northern Colorado. He sells his pens on a 100% yield grade basis. Which of the following bulls do you think would help get Tommy a greater paycheck?

- a. Bull A
- b. Bull B

45. If you had to guess, which bull would you expect to have a higher Terminal Index (TI)?

- a. Bull A
- b. Bull B

46. What does the Stayability EPD estimate?

- a. How long steers will stay at the feedbunk eating
- b. How long heifers will stay in heat
- c. How long a cow will remain in the cow herd
- d. How long a bull will be able to breed cows

47. True/False: As the calving ease EPD increases, the birth weight EPD increases too?

- a. True
- b. False

48. Which of the following is not a service provided by the American Simmental Association?

- a. Carcass Merit Program (CMP)
- b. Total Herd Enrollment (THE)
- c. American Junior Simmental Association (AJSA)
- d. SimAngus dual registration into American Angus Association (AAA)

49. True/False: The black coat color is dominant to the red coat color?

- a. True

b. False

50. True/False: The phenotype of the animal may change over time, but the genotype will stay the same?

a. True

b. False

Intermediate Quiz Questions

1. What does the cattle disease "BRD" stand for?
 - a. Bovine Receiving Disease
 - b. Bovine Respiratory Disease
 - c. Bovine Reciprocal Disorder
 - d. Bovine Respiratory Disorder
2. An order buyer from a feedlot would term unvaccinated, recently weaned, recently transported loudly bawling calves as what?
 - a. Low risk
 - b. Lowly susceptible
 - c. High Risk
 - d. Highly susceptible
3. The type of BVD termed as "PI" is also known as:
 - a. Personally Infected
 - b. Persistently Ingested
 - c. Pigment Infection
 - d. Persistently Infected
4. What might **not** be a reason to creep feed?
 - a. Low cow lactation
 - b. High cow lactation
 - c. Drought
 - d. High Feed Costs
5. What does TDN stand for?
 - a. Total Digestible Nutrients
 - b. Total Dry Nitrogen
 - c. Trying Distillers Nutritents
 - d. Total Distillers Nutrition
6. What is the ideal body condition score of a cow that is about to calve?
 - a. 1-2
 - b. 4-5
 - c. 8-9
 - d. 9-10
7. True/False: Dressing percentage is the percentage of the live weight of the animal that becomes carcass weight?
 - a. True
 - b. False
8. Which of the following is not an example of a parasite?
 - a. Mosquito
 - b. Anthrax
 - c. Tick
 - d. Flea
9. What is the most popular cut of beef, per what is sold in retail stores today?
 - a. Ribeye

- b. Rump Roast
- c. Strip Steak
- d. Ground Beef

10. Which of the following is **not** a predisposition to a heat stroke?

- a. Thin hair coat
- b. Lack of shade
- c. Lack of water
- d. High exercise level

11. Which of the following is **not** a beef primal?

- a. Chuck
- b. Round
- c. Loin
- d. T-Bone

12. What is hypothermia?

- a. Animal is too wet
- b. Animal is too cold
- c. Animal is too warm
- d. Animal is too thirsty

13. Vitamin A is commonly associated with what animal sense?

- a. Hearing
- b. Eye sight
- c. Taste
- d. Sensitivity to touch

14. What is the common feed:gain ratio associated for beef cattle?

- a. 10:1
- b. 7:1
- c. 4:1
- d. 2:1

15. What age are heifers when they receive Brucellosis vaccine?

- a. 2-4 months
- b. 4-12 months
- c. 10-24 months
- d. 24-48 months

16. Which of the following diseases does **not** affect the bovine reproductive tract?

- a. Trichomoniasis
- b. Bovine Vibriosis
- c. Leptospirosis
- d. Traumatic Reticuloperitonitis

17. Hardware Disease would occur in which bovine stomach compartment?

- a. Rumen
- b. Reticulum
- c. Omasum
- d. Abomasum

18. Is it possible to cure a roto-virus or corona-virus?
- Yes
 - No
 - Maybe
 - Not Sure
19. Who is the Chairman of the American Simmental Association (ASA) board?
- Dale Miller, Montana
 - Dr. Wade Shafer, Montana
 - John Irvine, Kansas
 - Morgan Phillips, Kentucky
20. Where is the loin muscle located on an animal?
- Over the top of the ribs
 - Underneath the belly
 - In between the front legs
 - Between the last rib and the hip
21. What the official term for "calving difficulty"?
- Dystocia
 - HCW
 - Dewclaw
 - Reticuloperitinitis
22. Which of the following would **not** be considered a roughage?
- Wheat
 - Beet pulp
 - Cottonseed Hulls
 - Ground straw
23. What is the address of the American Simmental Association?
- One Simmental Way, Bozeman, Montana
 - One Hundred Simmental Way, Bozeman Montana
 - One Genetics Way, Bozeman, Montana
 - One Cattle Way, Bozeman, Montana
24. What would the score be for a judging class that you placed 1-2-3-4, and the official placing was 3-1-2-4 and the cuts were 2-4-6?
- 50
 - 40
 - 45
 - 35
25. The first Simmental Association was created in 1890, in Switzerland called:
- World Simmental Association
 - Red and White Spotted Simmental Association
 - Switzerland Red and White Cattle Organization
 - World Fleckvieh Association
26. On average, how many cattle are slaughtered in the United States each year?
- 10 million
 - 15 million

c. 35 million

d. 65 million

27. The base weight in the yield grade equation is currently:

a. 500

b. 600

c. 700

d. 800

28. What carcass abnormality occurs when cattle are exposed to stress immediately prior to slaughter?

a. Dark cutter

b. Blood splash

c. Acidosis

d. High KPH%

29. What is the purpose of the index "TI"?

a. For use on Simmental cows, with all offspring being sent to feedlot

b. For use on Simmental cows, with 25% heifers retained, the remaining offspring sent to feedlot

c. For use on Angus cows, with all offspring being sent to feedlot

d. For use on Angus cows, with 25% heifers retained, the remaining offspring sent to feedlot

30. Which of the following would affect the quality of hay at harvest?

a. Maturity of grass

b. Stem size

c. Weed presence

d. All of the above

31. What is the #1 type of cancer in cattle?

a. Eye

b. Liver

c. Lung

d. Skin

32. Which of the following antibiotic(s) currently fall out of the Veterinary Feed Directive list, provided by the Food and Drug Administration?

a. Carbadox

b. Ractopamine

c. Amprolium

d. All of the above

33. True/False: Bos Indicus cattle will reach puberty and breed earlier than Bos Taurus cattle?

a. True

b. False

34. True/false: A beef product labeled "organic" must be antibiotic, hormone and ionophore free?

a. True

b. False

35. If a homozygous black bull is bred to a red cow, what is the chance that the resulting progeny will be homozygous black? (Hint: draw out your Punnett square.)

a. 0%

b. 25%

c. 75%

d. 100%

36. What laboratory does American Simmental Association utilize for all recognized testing?

a. Gene Seek

b. Zoetis

c. Agrigenomics

d. ASA has their own lab in-house

37. True/False: An animal that is 13/16 Simmental would be considered a Purebred Simmental?

a. True

b. False

38. In a normal judging contest, where a contestant is asked to place four animals, how many different placings are there available?

a. 24

b. 22

c. 20

d. 18

39. When figuring weaning weight, which of the following is **not** used to determine the EPD?

a. Age of the calf

b. Sex of the calf

c. Age of the cow

d. Age of the bull

40. Cow/Calf producer Joe Smith retains ownership of his calves, selling every steer and heifer born on a value based grid system. In reviewing his last two closeouts, Mr. Smith feels that there are too many USDA Select Grade carcasses. Consequently, he wants to breed his cows to a bull that will improve this specific trait. Which of these two bulls will best accomplish his objective:

a. Bull A

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	14.1	0.3	78.3	123.3	0.28	12.9	59.9	35.7	-0.29	-0.20	-.07	1.08

b. Bull B

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	20.2	-4.5	47.7	72.3	0.15	34.5	58.4	14.2	-0.46	-0.46	-.05	1.31

41. How could you calculate post-weaning ADG?

a. Weigh a calf at weaning, then weigh him again at yearling, then divide by the pounds of feed you fed him each day

b. Weigh a calf at weaning, then weigh him again at yearling, then divide by 160 days

c. Weigh a calf at yearling, then determine how much feed he was given, determine how much was spent on feed cost, divide feed cost by total feed.

d. Weigh a calf at yearling, use his actual yearling weight and add his mothers milk EPD

42. If a producer retained 0% of his calves on the rail, and sold complete ownership to the packer, which of the following EPD's would be the best selection for him?

- a. Milk
- b. WW**
- c. Marbling
- d. CW

43. Which of the following is **not** a trait or index published by the American Simmental Association?

- a. Maternal Weaning weight
- b. Maternal Calving Ease
- c. Docility
- d. Dollar (\$) Beef**

44. With regard to EPD accuracy which of the following statements is true:

- a. Accuracy is an indicator of the expected variation in a resulting calf crop
- b. As the accuracy of an animal increases, the better the animal will be for that trait
- c. Accuracy is the number associated with EPD's in which the higher the accuracy, the greater the risk that an animal's EPD's will change
- d. Accuracy is the relationship between the estimated EPD of an animal and the "true" EPD of an animal, expressed numerically from zero to one**

45. True/False: In terms of percentile ranking, Bull A is in the bottom 10% of the breed for BW, while Bull B is in the Top 10% of the breed for BW. Bull A would be expected to sire lighter calves?

- a. True
- b. False**

46. If you manage a herd in which replacement heifers are retained, which ASA \$ index will be the most important measure for making selection decisions?

- a. CE
- b. TI
- c. API**
- d. DOC

47. If you manage a herd in which all calves are put on feed and sold grade and yield, which ASA # index will be the most important for making selection decisions?

- a. CE
- b. TI**
- c. API
- d. DOC

48. Cow/Calf Producer Tom Monday calves his first calf heifers in a large pasture, checking them once every 24 hours. Unassisted births greatly influence his bottom line and are his #1 priority. Which of these two bulls would be a better option to accomplish his objective:

a. **Bull A**

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	14.1	0.3	78.3	123.3	0.28	12.9	59.9	35.7	-0.29	-0.20	-.07	1.08

b. Bull B

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	20.2	-4.5	47.7	72.3	0.15	34.5	58.4	14.2	-0.46	-0.46	-.05	1.31

49. How many EPDs and \$ Indexes are currently published by ASA?

a. 18

b. 17

c. 13

d. 2

50. The Stayability EPD is commonly based on how many average years of replacement heifer retainment?

a. 4 years

b. 5 years

c. 6 years

d. 7 years

Senior Quiz Questions

1. What is the ideal target weight for heifers at the beginning of their first breeding season?
 - a. 85% of their mature weight
 - b. 75% of their mature weight
 - c. 65% of their mature weight
 - d. 45% of their mature weight
2. What does NDF stand for in regards to cattle feeding protocols?
 - a. Non Digestible Fiber
 - b. Neutral Determined Follicles
 - c. Neutral Detergent Fiber
 - d. Non Digestible Fescue
3. What is the dry matter percentage of fresh cut alfalfa?
 - a. 25%
 - b. 50%
 - c. 75%
 - d. 95%
4. Which would rank the highest in percentage of crude protein?
 - a. Mature Alfalfa
 - b. Cottonseed hulls
 - c. Barley silage
 - d. Corn gluten
5. Bovine Viral Diarrhea Virus (BVD) costs the beef cattle industry an estimated how much money yearly?
 - a. Around \$1 million
 - b. Around \$5 million
 - c. Around \$100,000
 - d. Around \$2 billion
6. What breed composition(s) is a SimSolutions animal?
 - A) $\frac{1}{2}$ Simmental $\frac{1}{2}$ Angus
 - B) $\frac{1}{2}$ Simbrah $\frac{1}{2}$ Other Breed
 - C) $\frac{7}{8}$ or less Simmental
 - D) This is not a term recognized by ASA
7. Which of the following is recommended by the government established dietary guidelines?
 - a. High intake of red and processed meats
 - b. Moderate intake of red and processed meats
 - c. Low intake of fruits and vegetables
 - d. Moderate intake of fruits and vegetables
8. What is the name of the genetic defect commonly known as "fawn calf"?
 - a. Arthrogyrosis Multiplex (AM)
 - b. Developmental Duplication (DD)
 - c. Contractural Arachnodactyl (CA)
 - d. Tibial Hemimelia (TH)
9. A donor cow was mated to a black bull that carries the Red Charlie gene. There were eight live calves from the flush; four were red and four calves were black. What is the coat color of the cow??

- a. Black
- b. Red**
- c. White
- d. Not enough information

10. The "hepatic system" refers to which animal organ in specific?

- a. Heart
- b. Liver**
- c. Kidney
- d. Lungs

11. True/False: The horned gene is dominant to the polled gene.

- a. True
- b. False**

12. What is hypothermia?

- a. Animal is too wet
- b. Animal is too cold**
- c. Animal is too warm
- d. Animal is too thirsty

13. White muscle disease is caused by a deficiency of what vitamin/mineral?

- a. Copper
- b. Magnesium
- c. Selenium**
- d. Manganese

14. Which of the following associations is **not** involved in the American Simmental's Association IGS (International Genetic Solutions)?

- a. American Maine Anjou Association
- b. Canadian Shorthorn Association
- c. American Hereford Association**
- d. None of these breeds have a part in the American Simmental Association

15. What age are heifers when they receive Brucellosis vaccine?

- a. 2-4 months
- b. 4-12 months**
- c. 10-24 months
- d. 24-48 months

16. Which of the following diseases does **not** affect the bovine reproductive tract?

- a. Trichomoniasis
- b. Bovine Vibriosis
- c. Leptospirosis
- d. Traumatic Reticuloperitonitis**

17. Which of the following pasture types would **not** lend towards a pasture susceptible of grass tetany?

- a. Older, less green pastures
- b. Legumes versus forage
- c. Dry pasture
- d. Moist pasture**

18. What percentage Simmental does an animal have to be entered into ASA's registration system as a "Foundation Animal"?
- 100%
 - 75%
 - 25%
 - 0%
19. Which of the following originates from the "Flank" primal?
- Arm Roast
 - Tip Steak
 - Porterhouse Steak
 - Skirt Steak
20. What are the two types of vaccines used to protect against viral diseases?
- Passive virus and live virus
 - Modified live virus and active virus
 - Active virus and killed virus
 - Modified live virus and killed virus
21. Who is the Chairman of the American Simmental Association (ASA) board?
- Dale Miller, Montana
 - Dr. Wade Shafer, Montana
 - John Irvine, Kansas
 - Morgan Phillips, Kentucky
22. The first Simmental Association was created in Switzerland in what year?
- 1460
 - 1776
 - 1890
 - 1930
23. What is the maximum age an animal can/should be in order to grade maturity A on the rail?
- 9 months
 - 16 months
 - 30 months
 - 72 months
24. If the dam is commercial, what information does ASA need on the dam to register the calf?
- The dam's calving history: how many calves she has had
 - The dam's breed compositions
 - The dam's breed compositions, tattoo, and birth date.
 - No information needed, just need the sire information
25. What is the name of the test required by American Simmental Association to approve all donors and A.I. sires?
- GGP-HD
 - GGP-LD
 - Parent Verification
 - i50K
26. What would the dressing percentage be for a 1,250 pound animal that had a Hot Carcass Weight of 750?
- 58%

b. 60%

c. 65%

d. 68%

27. When figuring weaning weight, which of the following is **not** used to determine the EPD?
- Age of the calf
 - Sex of the calf
 - Age of the cow
 - Age of the bull
28. Grass tetany is caused by a deficiency of what mineral/vitamin?
- Copper
 - Magnesium
 - Selenium
 - Manganese
29. The base weight in the yield grade equation is currently:
- 500
 - 600
 - 700
 - 800
30. What is the main function of the hormone progesterone?
- Maintain pregnancy
 - Release eggs into uterus
 - End pregnancy, if it exists
 - None of the above
31. Which of the following is **not** a reportable disease in accordance with the state health commission?
- Lumpy Jaw
 - Vesicular Stomatitis
 - Foot and Mouth Disease
 - Bovine Spongiform Encephalopathy
32. Which of the following is **not** a type of Bermuda grass?
- Tifton-85
 - Jiggs
 - Costal
 - Bluestem
33. How long would it take an animal that has contracted Black Leg to reach death?
- 4-8 years
 - 4-8 months
 - 4-8 weeks
 - 48 hours
34. What carcass abnormality occurs when cattle are exposed to stress immediately prior to slaughter?
- Dark cutter
 - Blood splash
 - Acidosis
 - High KPH%

35. What is the purpose of the index "TI"?
- For use on Simmental cows, with all offspring being sent to feedlot
 - For use on Simmental cows, with 25% heifers retained, the remaining offspring sent to feedlot
 - For use on Angus cows, with all offspring being sent to feedlot
 - For use on Angus cows, with 25% heifers retained, the remaining offspring sent to feedlot

36. Which of the following antibiotic(s) currently fall out of the Veterinary Feed Directive list, provided by the Food and Drug Administration?
- Carbadox
 - Ractopamine
 - Amprolium
 - All of the above

37. What is the #1 type of cancer in cattle?
- Eye
 - Liver
 - Lung
 - Skin

38. Hardware Disease would occur in which bovine stomach compartment?
- Rumen
 - Reticulum
 - Omasum
 - Abomasum

39. A carcass that scored a "Small 10" marbling would also be referred to as:
- Low Choice
 - High Select
 - Low Select
 - High Standard

40. Cow/Calf producer Joe Smith retains ownership of his calves, selling every steer and heifer born on a value based grid system. In reviewing his last two closeouts, Mr. Smith feels that there are too many USDA Select Grade carcasses. Consequently, he wants to breed his cows to a bull that will improve this specific trait. Which of these two bulls will best accomplish his objective:

a. Bull A

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	14.1	0.3	78.3	123.3	0.28	12.9	59.9	35.7	-0.29	-0.20	-.07	1.08

b. Bull B

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	20.2	-4.5	47.7	72.3	0.15	34.5	58.4	14.2	-0.46	-0.46	-.05	1.31

41. If an animal's WW EPD is 66.0 and YW EPD is 109.9, the animal's ADG EPD is calculated to be?
- 0.54
 - 0.27

- c. 2.7
- d. 5.4

42. If an animal's WW EPD is 78.8 and Milk EPD is 3.5, the animal's MWW EPD is calculated to be?

- a. 82.3
- b. 42.9**
- c. 75.3
- d. 49.9

43. Which of the following information can be used to calculate Expected Progeny Differences?

- a. Individual genotype records
- b. Progeny performance
- c. DNA
- d. All of the above**

44. With regard to EPD accuracy which of the following statements is true:

- a. Accuracy is an indicator of the expected variation in a resulting calf crop
- b. As the accuracy of an animal increases, the better the animal will be for that trait
- c. Accuracy is the number associated with EPD's in which the higher the accuracy, the greater the risk that an animal's EPD's will change
- d. Accuracy is the relationship between the estimated EPD of an animal and the "true" EPD of an animal, expressed numerically from zero to one**

45. True/False: In terms of percentile ranking, Bull A is in the bottom 10% of the breed for BW, while Bull B is in the Top 10% of the breed for BW. Bull A would be expected to sire lighter calves?

- a. True
- b. False**

46. If you manage a herd in which replacement heifers are retained, which ASA \$ index will be the most important measure for making selection decisions?

- a. CE
- b. TI
- c. API**
- d. DOC

47. If you manage a herd in which all calves are put on feed and sold grade and yield, which ASA # index will be the most important for making selection decisions?

- a. CE
- b. TI**
- c. API
- d. DOC

48. Cow/Calf Producer Tom Monday calves his first calf heifers in a large pasture, checking them once every 24 hours. Unassisted births greatly influence his bottom line and are his #1 priority. Which of these two bulls would be a better option to accomplish his objective:

a. **Bull A**

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	14.1	0.3	78.3	123.3	0.28	12.9	59.9	35.7	-0.29	-0.20	-.07	1.08

b. Bull B

	CE	Brth	Wean	Year	ADG	Milk	MWW	CW	YG	Marb	BF	REA
EPD	20.2	-4.5	47.7	72.3	0.15	34.5	58.4	14.2	-0.46	-0.46	-.05	1.31

49. How many EPDs and \$ Indexes are currently published by ASA?

- a. 18
- b. 17
- c. 13
- d. 2

50. The Stayability EPD is commonly based on how many average years of replacement heifer retainment?

- a. 4 years
- b. 5 years
- c. 6 years
- d. 7 years