

**2023 OJSA Memorial Day Classic  
Cattlemen's Quiz  
JUNIOR DIVISION**

*You have 90 minutes to complete this quiz. In the event of a tie within the Top 10 placings, questions 46 through 50 will be used as tiebreaker questions. Further ties will be broken by order of finish.*

**For each question, choose the best answer. Fill in the corresponding answer response sheet by clearly writing the letter answer.**

1. Your SimAngus™ show heifer was successfully bred on April 10. Approximately when should you expect her to calve?
  - A. January 3
  - B. January 18
  - C. February 3
  - D. February 18
  
2. Beginning January 1, 2023, USDA is requiring all breeding cattle and show cattle moving interstate to have an Electronic Identification (EID) tag. While all EID tags can be used for on-farm animal identification, what is the only number series that is federally approved?
  - A. 982
  - B. 003
  - C. 840
  - D. 360
  
3. Which of the following allows producers to visually assess the nutritional status of their cows?
  - A. Breeding Soundness Exam
  - B. Economic Selection Indexes
  - C. Body Condition Score
  - D. National Cattle Evaluation
  
4. Which letter should a calf born in 2023 have included in its tattoo?
  - A. I
  - B. J
  - C. K
  - D. L
  
5. In 1967, Travers Smith imported the first Simmental bull to North America. The bull's name was Parisien, and he was brought:
  - A. to Canada from France
  - B. to Canada from Switzerland
  - C. to the United States from France
  - D. to the United States from Switzerland
  
6. A \_\_\_\_\_ is a set of animals that has had an equal opportunity to perform: They are the same gender, they have been managed similarly, and they were exposed to the same environmental conditions and feed resources.
  - A. sire group
  - B. calf crop
  - C. contemporary group
  - D. show string
  
7. Your veterinarian performs Breeding Soundness Exams on your group of yearling sale bulls. When examining Lot 18, she finds that he is healthy with a normal reproductive anatomy and a scrotal circumference of 38 cm. Using a microscope, she concludes that 50% of his sperm cells are normally shaped and 70% of the cells are moving. What are the results of his BSE?
  - A. He passes.
  - B. He fails due to inadequate scrotal circumference.
  - C. He fails due to inadequate motility.
  - D. He fails due to inadequate morphology.

8. What color animal is most likely to be tested for the dilutor gene?
- A. Grey
  - B. Black
  - C. Black baldy
  - D. Red
9. Which of the following is not considered an effective way to stimulate a newborn calf's breathing?
- A. Tickle or scratch the inside of the calf's nostrils with a clean piece of straw, causing the calf to cough and take a breath.
  - B. Hold or gently swing the calf by its hind legs to drain any mucus or fluid from its lungs and airways.
  - C. Use acupressure on the tip of the calf's nose to stimulate the central nervous system and increase respiration.
  - D. Splash cold water over the calf's head, creating a natural reflex to shake its head and take a breath.
10. What is a withdrawal period?
- A. The amount of time between selling a group of feeder calves and replacing them with new ones
  - B. The amount of time required after giving medication to an animal before that animal can be used in food production
  - C. The amount of time it takes for a cow to come into heat after she calves
  - D. The amount of time an animal must remain in quarantine after it has been hauled to a new farm
11. Which two drugs are commonly given in combination when inducing a cow or heifer to calve?
- A. Dexamethasone and Prostaglandin
  - B. Dexamethasone and Progesterone
  - C. Banamine and Prostaglandin
  - D. Banamine and Progesterone
12. \_\_\_\_\_ occurs when an animal does not exhibit normal estrous cycles.
- A. Proestrus
  - B. Diestrus
  - C. Anestrus
  - D. Metestrus
13. One primary benefit of the In Vitro Fertilization (IVF) process is that oocytes can be collected from pregnant donor females. According to TransOva, what is the general window in which this can occur?
- A. 40 to 100 days pregnant
  - B. 40 to 130 days pregnant
  - C. 40 to 160 days pregnant
  - D. 40 to 190 days pregnant
14. What does 129SM696 most likely refer to?
- A. A semen cane code for a SimGenetics bull
  - B. A Geneseek DNA test identification for a SimGenetics animal
  - C. An IVF collection number for a SimGenetics donor female
  - D. An official veterinary identification tag for a SimGenetics animal
15. From which part of the animal is a tissue sample taken?
- A. Brisket
  - B. Ear
  - C. Switch
  - D. Hoof
16. How many base USDA Quality Grades are there, and how many can be awarded to A-maturity carcasses?
- A. 5, 5
  - B. 6, 4
  - C. 6, 6
  - D. 8, 4

17. In the IVF process, how long are fertilized oocytes developed in an incubator prior to being frozen or transferred into recipients?
- 20-24 hours
  - 3 days
  - 7 days
  - 14 days
18. Products containing ivermectin, such as Ivomec®, are commonly used for:
- deworming
  - heat synchronization
  - mineral supplements
  - treating respiratory illness
19. Which of the following has the greatest impact on the profitability of cow/calf operations?
- Reproductive success
  - Calf illness and death
  - Feed expenses
  - Feeder calf value
20. A \_\_\_\_\_ is commonly used in heat synchronization protocols.
- cedar
  - seeder
  - CIDR
  - SEDR
21. Which of the following minerals is most commonly deficient in cattle diets and should be supplemented continuously?
- Calcium
  - Iron
  - Magnesium
  - Sodium
22. What is the common term for a naturally hornless animal?
- Homozygous
  - Scurred
  - Dominant
  - Polled
23. Refer to the image to the right. Note that some wording/lettering has been removed from the logo. Which organization uses this logo?
- Certified Angus Beef®
  - International Genetic Solutions
  - National Cattlemen's Beef Association
  - Beef Improvement Federation



24. Which of the following would add the most protein to your diet?
- 6 ounces of Greek yogurt
  - 2 tablespoons of peanut butter
  - 2 large eggs
  - A 3 ounce serving of beef

**For questions 25 through 32, refer to the following sires. Information on these bulls can be found on the last sheet of your quiz.**

- A. CDI Flint 221F
- B. DMCC/Wood Fully Loaded 39D
- C. Hook's Bozeman 8B
- D. LCDR Witness 541C
- E. Mr SR 71 Right Now E1538

25. Which bull should produce the highest percentage of unassisted births when used on heifers?
26. Which bull's offspring should be the most likely to earn a Docility Score of 1 or 2?
27. Which bull would you expect to sire offspring with the most performance, on average?
28. Which bull would be considered the most proven?
29. When Bull D's sire and dam were mated, what was the likelihood that they would produce a homozygous black calf?
  - A. 0%
  - B. 25%
  - C. 50%
  - D. 100%
  - E. Not enough information is available.
30. What is the possible change for the Yield Grade EPD of Bull B?
  - A. 0.10
  - B. 0.12
  - C. 0.39
  - D. 0.45
  - E. 0.55
31. How many of these bulls are better than breed average for Stayability?
  - A. 5
  - B. 4
  - C. 3
  - D. 2
  - E. 1
32. Within Contemporary Group A, six heifer calves sired by Bull D have an average WW ratio of 114. Bull E sired four heifers in the same contemporary group. What would you expect of their WW ratios?
  - A. The heifers sired by Bull E should have a lower average WW ratio.
  - B. The heifers sired by Bull E should have a higher average WW ratio.
  - C. The heifers sired by Bull E should have a similar average WW ratio.
  - D. None of the above. A contemporary group cannot contain multiple sire groups.
  - E. None of the above. A contemporary group must contain equal numbers of calves for each sire.
33. The Calving Ease EPD (CE) is considered a:
  - A. Direct EPD
  - B. Maternal EPD
  - C. Terminal EPD
  - D. Selection Index
34. PB SM Cow A has a BF EPD of -0.126 and a REA EPD of 1.01. PB SM Cow B has a BF EPD of -0.092 and a REA EPD of 0.79. Based on this information, which of the following would you expect to be true?
  - A. Cow A should produce offspring with better USDA Yield Grades.
  - B. Cow A should produce offspring with better USDA Quality Grades
  - C. Cow B should produce offspring with better USDA Yield Grades.
  - D. Cow B should produce offspring with better USDA Quality Grades.
  - E. Both A and B

35. What is most common cause for changes in EPD values?
- Adjustments for inaccurately reported data
  - Shifting selection pressures by producers
  - Additional resources being incorporated into the genetic evaluation
  - Updated EPD evaluation technology
36. A calf's sire has a BW EPD of -1.0, and its dam has a BW EPD of 1.0. What is the best pedigree estimate of the calf's BW EPD?
- 2.0
  - 1.0
  - 0.0
  - 1.0
  - 2.0
37. You have a small herd of red SimAngus™ females that you want to convert to a primarily black herd. You use only homozygous black sires and retain all the females that result from these matings. If you also breed those females to homozygous black bulls, what percentage of them should you expect to have homozygous black offspring?
- 0%
  - 25%
  - 50%
  - 75%
  - 100%
38. What is the name of ASA's genetic defect monitoring tool?
- Defect Detector
  - Green Light
  - SimTracker
  - TraitTrac
39. What ASA program recognizes cattle that are the highest achievers at the breed's four major shows?
- Roll of Victory
  - Standard of Excellence
  - Ring of Champions
  - Progress Through Performance
40. Which EPD or index predicts the reproductive longevity of a parent animal's daughters?
- API
  - MCE
  - STAY
  - DOC
  - HB
41. An animal with which of the following breed compositions would not qualify as a SimAngus™?
- 3/4 SM 1/8 AN 1/8 CH
  - 5/8 SM 1/4 AN 1/8 BR
  - 1/2 AN 1/4 SM 1/4 MA
  - 1/2 SM 1/2 AR
42. A producer sells his entire calf crop at weaning. Which of the following EPDs or indexes is the most important to his program?
- BW
  - \$TI
  - WW
  - MWW
43. What is the name of the American Simmental Association's whole herd reporting program?
- Cow Herd Roundup (CHR)
  - Progress Through Performance (PTP)
  - Herd Handler (HH)
  - Total Herd Enrollment (THE)

44. Which of the following is included in the calculation of EPDs and indexes?
- Pedigree information
  - Genomic data
  - Progeny records
  - All of the above
45. X100 is a Purebred Simmental cow. Her BW EPD is 1.6 with an accuracy of 0.55. C401 is a SimAngus™ cow. Her BW EPD is -0.9 with an accuracy of 0.27. Which of these cows most likely has a Birth Weight EPD that is closer to its true value?
- X100
  - C401
  - You cannot compare EPD accuracies of a Purebred Simmental animal and a SimAngus™ animal.
  - Not enough information is available.

### TIEBREAKER QUESTIONS

Questions 46 through 50 are tiebreaker questions. If you achieve a possible Top 10 score that is tied with one or more other contestants answers to these questions will determine final placings.

46. Each year, the World Simmental-Fleckvieh Federation awards individuals (or organizations) for their contributions to the Simmental or Simbrah breeds. What is the name of this award?
- Swiss Bell Award
  - Golden Book Award
  - Lifetime Promoter Award
  - Gold Merit Award
47. Pulmonary arterial pressure testing is highly important to cattle producers in:
- high altitudes
  - hot climates
  - wet environments
  - feedlot settings
48. Refer to the partial logo to the right. This global animal and food safety company, which also offers genomic testing, is an International Genetic Solutions partner. What company is it?
- Neogen®
  - Elanco™
  - Zoetis Inc.
  - VitaFerm®



49. Each year, a heifer is donated to the American Simmental-Simbrah Foundation and auctioned off at a major sale, with proceeds benefitting ASA events and programs including AJSA. The 2023 Foundation Female sold at the Bricktown National Sale at Cattlemen's Congress for a record \$56,750. Who donated this female?
- Clear Water Simmentals
  - Wayward Hill Farm
  - Buck Creek Ranch
  - Trennepohl Farms
50. You have an eight-year-old SimAngus™ cow that is considered a Population Risk for CA. If you want to clear the members of this cow family as potential genetic defect carriers, what is the first thing you should do?
- Run a full genomic test (GGP-LD or higher) on the eight-year-old cow.
  - Test the eight-year-old cow and all her daughters remaining in your herd for CA.
  - Only use AI bulls and natural service sires that are documented as CA-free.
  - Test the eight-year-old cow for CA.
  - No extra measures are needed. If she were a CA carrier, it would have presented in one of her descendants by now.

**ASA #: 3429444**  
Registered

**CDI FLINT 221F**  
Red  
Polled (Homozygous Polled)

**Tattoo: 221F**  
Left Ear

Single Birth Bull

PB SM

PQS GE

**TraitTrac**  
(Check available results)

**Owner:** 321263 - BERG RED-TAIL RANCH  
**Breeder:** 202710 - C DIAMOND INC

**Birth Date:** 2018-03-10  
**Original Issue:** 2019-06-17

BOLT - 2020-06-16

	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	18.6	-3.0	73.8	105.8	0.20	8.8	22.3	59.2	12.4	13.2	36.4	-0.44	0.23	-0.088	1.04	-0.28	147.3	84.5
PC	±4.45	±1.35	±8.15	±12.85	±0.014	±6	±7.02	±7.02	±5.25	±3.15	±10.23	±0.13	±0.156	±0.026	±0.241	±0.237		
ACC	0.43	0.55	0.50	0.50	0.50	0.24	0.41	0.42	0.26	0.37	0.47	0.36	0.40	0.36	0.44	0.05		
%	1	1	25	40	60	10	45	30	99	15	20	65	10	90	10	80	5	2

Pedigree

Color HPS

HOOK`S XPECTATION 36X	2559346	R	PP
CDI PERSPECTIVE 238A	2732012	R	PP
CDI MS TRUMP 101Y	2635139	R	PP
<b>CDI FLINT 221F</b>	<b>3429444</b>	<b>R</b>	<b>PP</b>
TJ MAIN EVENT 503B	2891336	BB	PP
CDI MISS MAIN EVENT 166D	3152654	B	P
CDI MS HIGH ROLLER 163A	2732253	BH	P

**ASA #: 3131823**  
Registered

**DMCC/WOOD FULLY LOADED 39D**  
Black (Heterozygous Black)  
Polled (Homozygous Polled)

**Tattoo: DMCC 39D**  
Left Ear

Frozen Embryo Bull

PB SM

PQB GE

**TraitTrac**  
(Check available results)

**Owner:** 318622 - HIGH PRAIRIE GENETICS  
**Breeder:** 040166 - MUELLER, MARK M

**Birth Date:** 2016-03-11  
**Original Issue:** 2016-09-12

BOLT - 2020-06-16

	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	9.9	0.8	57.6	88.0	0.19	5.5	23.8	52.6	18.7	10.5	47.0	-0.55	0.07	-0.134	1.14	-0.25	128.5	66.1
PC	±3.9	±1.14	±7.66	±12.34	±0.013	±5.45	±6.31	±6.41	±4.83	±3.05	±9.84	±0.12	±0.143	±0.024	±0.219	±0.203		
ACC	0.50	0.62	0.53	0.52	0.52	0.31	0.47	0.47	0.32	0.39	0.49	0.39	0.45	0.39	0.49	0.19		
%	55	30	95	85	70	50	30	75	30	55	2	10	35	10	4	90	40	70

Pedigree

Color HPS

REMINGTON ON TARGET 2S	CANSM - 658801	2417812	P
REMINGTON LOCK N LOAD54U	CANSM - 709087	2503661	BH PP
BAR15 MISS KNIGHT78E-51G	CANSM - 376669	2569986	P
<b>DMCC/WOOD FULLY LOADED 39D</b>	<b>3131823</b>	<b>BH</b>	<b>PP</b>
3C MACHO M450 BZ	CANSM - 632915	2184077	BB PH
AUBREYS BLACK BLAZE III		2432053	BB P
BLAZE IV 1P		2232291	P

**ASA #: 2854480**  
Registered

**HOOK`S BOZEMAN 8B**  
Black (Homozygous Black)  
Polled (Homozygous Polled)

**Tattoo: 8B**  
Right Ear

Single Birth Bull

PB SM

PQB GE

**TraitTrac**  
(Check available results)

**Owner:** 315755 - SCHNABEL RANCH AND HOOK FARMS  
**Breeder:** 004698 - HOOK FARMS

**Birth Date:** 2014-02-23  
**Original Issue:** 2014-12-22

BOLT - 2020-06-16

	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	13.9	0.1	63.5	99.1	0.22	7.6	18.5	50.2	15.2	11.4	14.4	-0.50	0.48	-0.082	0.98	-0.41	152.5	80.6
PC	±2.18	±0.3	±2.12	±3.34	±0.004	±2.84	±3.57	±3.39	±3.76	±1.9	±6.75	±0.11	±0.114	±0.021	±0.176	±0.207		
ACC	0.72	0.90	0.87	0.87	0.87	0.64	0.70	0.72	0.47	0.62	0.65	0.47	0.56	0.47	0.59	0.17		
%	10	15	75	55	40	15	85	85	85	40	99	30	1	90	20	15	3	5

Pedigree

Color HPS

GW PREMIUM BEEF 021TS	2370545	BB	PP
GW-WBF SUBSTANCE 820Y	2605922	BB	PP
GW MISS MATERNAL 558P	2271589		P
<b>HOOK`S BOZEMAN 8B</b>	<b>2854480</b>	<b>BB</b>	<b>PP</b>
TRIPLE C INVASION R47K	2287392	BB	PP
HOOK`S WILL POWER 24W	2543620	BB	PP
HOOKS SHIMMER 37S	2334115	BB	PP

**ASA #: 3027291**  
Registered

**LCDR WITNESS 541C**  
Black (Homozygous Black)  
Polled (Homozygous Polled)

**Tattoo: 541C**  
Left Ear

Frozen Embryo Bull

PB SM

PQB GE

**TraitTrac**  
(Check available results)

**Owner:** 224060 - LAZY C DIAMOND RANCH  
**Breeder:** 325278 - BICHLER SIMMENTALS/LAZY C DIAMOND RCH

**Birth Date:** 2015-08-11  
**Original Issue:** 2018-07-16

BOLT - 2020-06-16

	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	5.3	4.0	100.4	153.4	0.33	4.8	21.8	72.0	19.8	12.5	61.9	-0.46	-0.17	-0.135	1.06	-0.30	122.0	80.5
PC	±3.43	±0.84	±5.22	±7.97	±0.009	±5.29	±6.07	±6.05	±4.9	±2.7	±8.88	±0.12	±0.143	±0.026	±0.219	±0.205		
ACC	0.56	0.72	0.68	0.69	0.69	0.33	0.49	0.50	0.31	0.46	0.54	0.39	0.45	0.35	0.49	0.18		
%	95	95	1	1	1	60	50	1	15	25	1	55	99	10	10	70	60	5

Pedigree

			Color	HPS
	OLF ODIN U5	CANSM - 716721	2471211	B P
	OLF OTIS Y43		2613322	BH P
	OLF MISS GUNNER W8		2539749	R P
	<b>LCDR WITNESS 541C</b>		<b>3027291</b>	<b>BB PP</b>
	HSF HIGH ROLLER 12T	CANSM - 785107	2408113	PP
	WS MOTHER LODGE W21		2499586	BH PP
	WS MISS BEEFWAY T7		2395612	B PP

**ASA #: 3325668**  
Registered

**MR SR 71 RIGHT NOW E1538**  
Black (Homozygous Black)  
Polled (Homozygous Polled)

**Tattoo: E1538**  
Left Ear

Single Birth Bull

PB SM

PQB GE

**TraitTrac**  
(Check available results)

**Owner:** 003773 - WERNING, DALE  
**Breeder:** 230280 - SCHNABEL RANCH

**Birth Date:** 2017-02-20  
**Original Issue:** 2019-01-11

BOLT - 2020-06-16

	CE	Brth	Wean	Year	ADG	MCE	Milk	MWW	Stay	Doc	CW	YG	Marb	BF	REA	Shr	API	TI
EPD	16.6	-1.2	74.9	119.4	0.28	9.5	21.9	59.3	14.2	14.3	39.4	-0.55	0.25	-0.121	1.15	-0.44	149.4	84.4
PC	±3.2	±0.84	±5.71	±9.25	±0.01	±5.37	±6.43	±6.41	±5.04	±3.1	±9.26	±0.12	±0.14	±0.024	±0.215	±0.205		
ACC	0.59	0.72	0.65	0.64	0.64	0.32	0.46	0.47	0.29	0.38	0.52	0.40	0.46	0.40	0.50	0.18		
%	2	5	25	10	10	3	50	30	90	10	10	10	10	20	3	10	4	2

Pedigree

			Color	HPS
	GW-WBF SUBSTANCE 820Y		2605922	BB PP
	HOOK`S BOZEMAN 8B		2854480	BB PP
	HOOK`S WILL POWER 24W		2543620	BB PP
	<b>MR SR 71 RIGHT NOW E1538</b>		<b>3325668</b>	<b>BB PP</b>
	HOOK`S YELLOWSTONE 97Y		2612546	BB PP
	MISS SR C1538		3078408	B P
	MISS FR A309		2797651	B P