2018 Iowa State 4-H/FFA Livestock Judging Contest

8/25/18

LIVESTOCK EVALUATION TEST

- 1) Marbling is also known as?
 - a. Intramuscular fat
 - b. Subcutaneous fat
 - c. Seam fat
 - d. Intermuscular fat
- 2) Which term estimates the portion of the animal that will be used as edible product?
 - a. Quality Grade
 - b. Yield Grade
 - c. Dressing Percentage
 - d. Hot carcass weight
- 3) Of the gastrointestinal "segments" listed below, which one is NOT one of the 4 chambers in the ruminant stomach?
 - a. Rumen
 - b. Reticulum
 - c. Abomasum
 - d. Cecum
- 4) Which animal's digestive/gastrointestinal tract is most similar to humans?
 - a. Cattle
 - b. Swine
 - c. Sheep
 - d. Goat
- 5) Cattle that are of the same breed composition and sex, are similar in age, and have been managed under the same conditions are considered to be a what?
 - a. Sire group
 - b. Maternal group
 - c. Breeding group
 - d. Contemporary group
- 6) Besides marbling, what other factor contributes to determining beef carcass quality grades?
 - a. Gender
 - b. Percent KPH
 - c. Skeletal ossification
 - d. 12th rib fat thickness

7) The average length of the estrus cycle for sheep is?
a. 12 days
b. 17 days
c. 21 days
d. 22 days
8) Which factor is NOT used to determine yield grade in sheep carcasses?
a. Flank streaking
b. Body wall thickness
c. 12 th rib fat thickness
d. Loin eye area
9) Adapting animal behavior to fit the needs of people is referred to as?
a. Livestock evaluation
b. Animal production
c. Domestication
d. Animal husbandry
10) Which of the following is considered a maternal breed of swine?
a. Hampshire
b. Landrace
c. Berkshire
d. Duroc
11) An animal that has excessive set to their hock could be described as being:
a. Sickle hocked
b. Bow legged
c. Pidgeon toed
d. Post-legged
12) When estimating pounds of lean in a hog carcass, which measurement is NOT included?
a. 10 th rib fat thickness
b. Loin eye are
c. Ham score
d. Hot carcass weight
13) The mating of animals in different families within the same breed is known as?
a. Outcrossing
b. Linebreeding
c. Crossbreeding
d. Inbreeding
14) Which of the following breeds of sheep have a black face and legs, with a long thin ear?
a. Hampshire
b. Dorset

c. Southdownd. Suffolk

15) When judging a market steer class which term is used to describe the amount of fat
cover on an animal?
a. Fluff
b. Carcass Merit
c. Quality
d. Finish
16) A steer throughout his life would have an average feed to gain ratio closest to?
a. 2 to 1
b. 4 to 1
c. 7 to 1
d. 11 to 1
17) Which trait is not considered when calculating terminal bio-economic indexes in beef
cattle (i.e. \$Beef, \$CHB, TI, MTI, etc.)?
a. Milk
b. Yearling weight
c. Marbling
d. Ribeye area
18) Why are weak pasterns criticized in swine?
a. They indicate a light muscled animal
b. They are the result of excess pressure on the animal's feet
c. They tend to lead to torn dewclaws and lameness
d. They indicate an overconditioned animal
19) is a measure of the degree of difference between the offspring of a specific
bull and the offspring of the average bull of the breed in the trait being measured.
a. OSB
b. EPD
c. SPF
d. MPV
20) Which of the following is a continental breed of cattle
a. Angus
b. Charolais
c. Hereford
d. Shorthorn
21) Considering most sows are farrowed in crates, which would be the most concerning flaw

when selecting for replacement gilts? a. Low fronted

- b. Light muscled
- c. Short bodied
- d. Bow legged

- 22) Acute stress in cattle prior to harvest can lead to which carcass flaw/discount?
 - a. Yield grade 4
 - b. Dark cutters
 - c. Carcass ossification
 - d. No-roll
- 23) What is the number one reason cows are culled from the herd in the U.S.?
 - a. Structure problems
 - b. Udder problems
 - c. Docility
 - d. Reproductive failure
- 24) Which swine selection index swine is calculated solely by maternal traits (i.e. NBA, 21-day litter weight, WTE)
 - a. Sow Productivity Index (SPI)
 - b. Maternal Line Index (MLI)
 - c. Terminal Sire Index (TSI)
 - d. Weight per day of Age (WDA)
- 25) Which Codon 171 status below suggests that the individual is Scrapie susceptible?
 - a. NN
 - b. RR
 - c. QR
 - d. QQ
- 26) In young market lambs, quality grade is determined by what?
 - a. 12th rib fat thickness
 - b. Loin eye area
 - c. Flank streaking
 - d. Dressing percentage
- 27) The genetic makeup of an animal is called its:
 - a. Genotype
 - b. Phenotype
 - c. Dominance
 - d. Recessiveness
- 28) The record of the ancestors of a particular animal is recorded in its:
 - a. Performance record
 - b. Pedigree
 - c. Phenotype
 - d. Genetic map

- 29) The term used for a castrated male goat is?
 - a. Steer
 - b. Barrow
 - c. Wether
 - d. Gelding
- 30) Which of the following is not an example of a growth promotant used in livestock production?
 - a. Implants
 - b. Beta-agonists
 - c. Ionophores
 - d. Dried distiller's grains
- 31) Which compartment of the ruminant stomach is called the "true stomach" and is where gastric and enzymatic digestions starts?
 - a. Rumen
 - b. Omasum
 - c. Reticulum
 - d. Abomasum
- 32) Which classes of sheep are bred primarily for meat production?
 - a. Fine wool breeds
 - b. Medium wool breeds
 - c. Crossbred wool breeds
 - d. Fur sheep breeds
- 33) The process of giving birth to a new animal is called?
 - a. Gestation
 - b. Conception
 - c. Parturition
 - d. Ovulation
- 34) Which of the following correctly defines the term "hybrid vigor"?
 - a. The value of the animal as a parent
 - b. The crossbred offspring exceeds the average of the two parental breeds
 - c. A group of animals of the same age, sex, and breed composition
 - d. The measure of how inbred an animal is
- 35) If a ewe with a Codon 171 status of QR is mated to a ram with a Codon 171 status of QR, what percentage of her offspring will be resistant to Scrapie?
 - a. 0%
 - b. 25%
 - c. 75%
 - d. 100%

- 36) What is visually used by producers to identify what litter each hog belongs to?
 - a. Ear notch
 - b. Brand
 - c. DNA Verification
 - d. Color pattern
- 37) The average LEA (loin eye area) for a 250 pound barrow is closest to?
 - a. 3 square inches
 - b. 7 square inches
 - c. 10 square inches
 - d. 12 square inches
- 38) Which is not a known genetic defect of cattle?
 - a. Curly Calf Syndrome (Arthrogryposis Mulitplex)
 - b. Idiopathic Epilepsy (IE)
 - c. Tibila Hemimelia (TH)
 - d. Porcine Stress Syndrome (PSS)
- 39) Which of the following would most closely describe a light-muscled, extremely fat steer?
 - a. YG 1
 - b. YG 2
 - c. YG3
 - d. YG4
- 40) Which of the following locations is where beef carcasses are ribbed?
 - a. Between the 5th and 6th ribs
 - b. Between the 8th and 9th ribs
 - c. Between the 11th and 12th ribs
 - d. Between the 12th and 13th ribs

Use the following scenario to answer questions 41-44

Rank these Limousin Bulls as they are to be mated to Angus cows. All progeny will be retained through the family feedlot and sold on a balance grid system.

- 41) What percentage of offspring are to be kept as replacements?
 - a. 0%
 - b. 5%
 - c. 10%
 - d. 20%
- 42) Which trait (EPDs) is the most important to evaluate for the Limousin bull?
 - a. Milk
 - b. Stayability
 - c. Yearling Weight
 - d. Mainstream Terminal Index (MTI)

- 43) Which trait (EPDs) should be least emphasized for the Limousin bull in this situation?
 - a. Marbling
 - b. Yearling weight
 - c. Milk
 - d. Ribeye area
- 44) What is the primary advantage of this and any crossbreeding scheme when compared to breeding purebreds?
 - a. Docility
 - b. Structure
 - c. Heterosis/Hybrid vigor
 - d. Balance

Use the following scenario to answer questions 45 and 46

Rank these Yorkshire Boars to be utilized in a commercial operation. After years of using a HD cross (Hampshire x Duroc), the owner decides to utilize a Yorkshire sire to create highly prolific replacements. The chosen boar will be mated to HD sows, with the 80% of the resulting female progeny retained in production, while all culls are sold on a lean value basis.

- 45) Which of the following traits (EPDs) would be the most important for selection of the Yorkshire boars?
 - a. Days to 250
 - b. Back fat
 - c. Sow Productivity Index (SPI)
 - d. Terminal sire index (TSI)
- 46) What traits are the F1 HD sows expected to contribute to this cross?
 - a. Milk
 - b. Litter size
 - c. Maternal strengths
 - d. Terminal strengths

Use the following Angus bull data set to answer questions 47-50

Bull	BW	CE	ww	YW	Milk	REA	Marb
1	-1.1	13	45	86	30	.33	.79
2	3.6	4	62	101	18	.72	.48
3	2.0	6	58	94	23	.55	.61
4	1.0	8	55	90	27	.58	.52
Breed Average	1.2	6	49	87	24	.50	.55

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4/)	vvnich	buii	would	be the	sarest to) use on	first-calf	nemers:

- a. 1
- b. 2
- c. 3
- d. 4

48) Which bull should sire the heaviest milking daughters?

- a. 1
- b. 2
- c. 3
- d. 4

49) If labor and feed resources were scarce, which bull would be the riskiest choice to use for generating replacement females?

- a. 1
- b. 2
- c. 3
- d. 4

50) Which bull falls on the wrong side of breed average for growth?

- a. 1
- b. 2
- c. 3
- d. 4

Answers

- 1) A
- 2) C
- 3) D
- 4) B
- 5) D
- 6) C
- 7) B
- 8) A
- 9) C
- 10) B
- 11) A
- 12) C
- 13) A
- 14) D
- 15) D
- 16) C
- 17) A
- 18) C
- 19) B
- 20) B
- 21) D 22) B
- 23) D
- 24) A
- 25) D
- 26) C
- 27) A
- 28) B
- 29) C
- 30) D
- 31) D
- 32) B
- 33) C
- 34) B
- 35) B or C
- 36) A
- 37) B
- 38) D
- 39) D

- 40) D
- 41) A
- 42) D
- 43) C
- 44) C
- 45) C
- 46) D
- 47) A
- 48) A
- 49) B
- 50) A