2019 Iowa State 4-H/FFA Livestock Judging Contest 8/24/19

LIVESTOCK EVALUATION TEST

1)	Marbling	is	also	known	as?
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- 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 Percent
 - d. Hot carcass weight
- 3) What nutrient is most essential to animal survival?
 - a. Protein
 - b. Carbohydrates
 - c. Vitamins/Minerals
 - d. Water
- 4) Which animal's digestive/gastro-intestinal 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

	a.	12 days			
	b.	17 days			
	C.	21 days			
	d.	22 days			
8)	Which	factor is used t	o determine Y	ield Grade in sheep card	casses?
	a.	Flank streaking	g		
	b.	Body wall thic	kness		
	C.	12 th rib fat thic	ckness		
	d.	Loin eye area			
9)	Adapti	ing animal heha	vior to fit the	needs of people is refer	red to as?
-,	•	Livestock evalu			
	_	Animal produc			
		Domestication			
	d.	Animal husbar	ndry		
			,		
10)	Which	of the followin	g is considere	d a maternal breed of sv	vine?
	a.	Hampshire			
	b.	Landrace			
	c.	Chester White			
	d.	Duroc			
11\	ι Δn ani	mal that has ev	ressive set to	their hock could be desc	rihed as heing:
,	a.	Sickle hocked	ccssive set to	then mock could be desc	ribea as being.
		Bow legged			
		Pidgeon toed			
		Post-legged			
	۷.	. oot legged			
12)	The av	erage dressing	percent for ho	gs is closest to?	
		50%	b. 60%	c. 70%	d. 80%
13)	The m	nating of animal	s in different f	families within the same	breed is known as?
	a.	Outcrossing			
	b.	Linebreeding			
	C.	Crossbreeding			
	d.	Inbreeding			

7) The average length of the estrus cycle for sheep is?

14) Which of the	e following breeds of sheep have a black face and legs, with a long thin ear?
a. Ham	pshire
b. Dors	et
c. Sout	hdown
d. Suffo	olk
15) When judgii	ng a market steer class which term is used to describe the amount of fat
cover on an	animal?
a. Fluff	
b. Carc	ass Merit
c. Qual	lity
d. Finis	h
16) A steer, thro	oughout 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	01
17) Which trait	is not considered when calculating terminal bioeconomic indexes in beef
cattle (i.e. \$	Beef, \$CHB, TI, MTI, etc.)?
a. Milk	
b. Year	ling weight
c. Marl	bling
d. Ribe	ye area
18) Why are we	ak 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 over-conditioned animal
• ————	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	1

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 4b. Dark cutters
c. Carcass ossification

- a. Structure problems
- b. Udder problems
- c. Docility

d. No-roll

- 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 your	ng market lambs, quality grade is determined by what?
a.	12 th rib fat thickness
b.	Loin eye area
c.	Flank streaking
d.	Dressing percentage
27) The ge	netic makeup of an animal is called its:
a.	Genotype
b.	Phenotype
_	Dominance

- 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 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 RR, what percentage of her offspring will be resistant to Scrapie?
 - a. 0%
 - b. 25%
 - c. 50%
 - 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. 2 square inches
 - b. 6 square inches
 - c. 10 square inches
 - d. 12 square inches

38) Which	is not a known	genetic defect	t of cattle?		
a.	Curly Calf Syn	drome (Arthroរុ	gryposis Mul	litplex)	
b.	Idiopathic Epi	lepsy (IE)			
c.	Tibila Hemime	elia (TH)			
d.	Porcine Stress	Syndrome (PS	S)		
39) Which	of the followin	g would most	closely descr	ribe a light mu	uscled, extremely fat steer?
a.	YG 1	b. YG 2	c. Y	'G 3	d. YG 4
40) Which	n of the followi	ng locations is v	where beef o	carcasses are	ribbed?
a.	Between the 5	5 th and 6 th ribs]			
b.	Between the 8	3 th and 9 th ribs			
c.	Between the 3	11 th and 12 th ril	os		
d.	Between the 3	12 th and 13 th ril	os		
	wing scenario t	•			
					d to Angus cows. All progeny
will be retaine	d through the fa	amily feedlot ar	ıd sold on a b	palance grid sy	stem.
41) What	percentage of c	offspring are to	be kept as r	eplacements	?
a.	0%	b. 5%	c. 10%	d.	20%
42) Which	trait (EPDs) are	e the most imp	ortant to ev	aluate for the	Limousin bull?
a.	Milk				
b.	Stayability				
c.	Yearling Weig	ht			
d.	Mainstream T	erminal Index	(MTI)		
43) Which	trait (EPDs) sh	ould be least e	mphasized fo	or the Limous	in bull in this situation?
a.	Marbling				
b.	Yearling weigh	nt			
c.	Milk				
d.	Ribeye area				
44) What i	s the primary ac	dvantage of this	and any cro	ssbreeding sch	neme when compared to
•	ng purebreds?	J	•	· ·	·
a.	Docility				
	Structure				
c.	Heterosis/Hyb	rid 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

a. 1

a. 1

- b. Litter size
- c. Maternal Strengths
- d. Terminal Strengths

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

b. 2

b. 2

Bull	BW	CE	ww	YW	Milk	REA	Marb
1	-1.1	13	45	86	30	.33	.79
2	3.6	4	62	101	29	.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

Dan	500	<u> </u>				NEA	IVIGI D
1	-1.1	13	45	86	30	.33	.79
2	3.6	4	62	101	29	.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

47) Which bull woւ	uld be the safest to u	se on first calf heifers?	
a. 1	b. 2	c. 3	d. 4
48) Which bull sho	uld sire the heaviest	milking daughters?	

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

c. 3

c. 3

d. 4

d. 4

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

Answers

- 1) A
- 2) C
- 3) D
- 4) B
- 5) D
- 6) C
- 7) B
- 8) C
- 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) D
- 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