1.	The	sudden death of heavily muscled hogs is referred to as:		
	* <b>A</b>	Porcine Stress Syndrome		
	В	Mycoplasmal Pneumonia		
	С	Porcine Circivirus		
	D	Porcine Cardiac Complex		
2.	A swine nutritional health problem caused by lack of iron in the diet.			
	Α	Rickets		
	В	Parakeratosis		
	*C	Anemia		
	D	Hypoglycemia		
3.		ch vitamin do animals tend to produce enough of so that it does not need to be included as a cific nutrient in their rations?		
	A	Vitamin D		
	*B	Vitamin C		
	С	Vitamin A		
	D	Vitamin E		
4.	The	removal of the testicles from a male animal is:		
	Α	dehorning		
	*B	castration		
	С	vaccination		
	D	insemination		
5.	Whi	ch species of livestock reaches puberty based on the season and not age?		
	Α	Sheep		
	*B	Goats		
	С	Cattle		
	D	Swine		
6.		process of placing sperm in the female reproductive tract by some other means than natural mating nown as:		
	Α	pregnancy testing		
	В	embryo transfer		
	С	estrus synchronization		
	*D	artificial insemination		
7.	The	first breed of beef cattle imported to the United States in the late 1700's was the:		
	Α	Brahman		
	В	Hereford		
	С	Angus		
	*D	Shorthorn		
8.		is a measure of the degree of difference between the offspring of a specific bull and the pring of the average bull of the breed in the trait being measured.		
	* <b>A</b>	EPD		
	В	OSB		
	С	MPV		
	D	SPF		

9.	The	expected yield of a hog with a USDA quality grade of No. 1 is:
	Α	52 to 54.4%
	В	57.4 to 60.3%
	*C	60.4% or greater
	D	54.4 to 57.3%
10.	She	ep are a major enterprise in the area of the United States.
	Α	southern
	*B	western
	С	northern
	D	eastern
11.	Wha	at is an infertile female calf born as a twin to a fertile male calf called?
	* <b>A</b>	Freemartin
	В	Sex-limited
	С	Markhors
	D	Clone
12.	Fat	present in muscle tissue is known as:
	Α	condition
	В	tallow
	*C	marbling
	D	finish
13.	Heif	ers most commonly reach puberty at the average age of:
	Α	18 months
	В	12 months
	*C	7 months
	D	4 months
14.	An a	animal that has extremely straight hind legs is best described as being:
	Α	sound
	В	cow-hocked
	*C	post-legged
	D	sickle-hocked
15.	Whi	ch fat-soluble vitamin is associated with bone development and calcium absorption?
	Α	Vitamin A
	В	Vitamin E
	С	Vitamin K
	*D	Vitamin D
16.	Whi	ch amino acid listed is first limiting in swine rations?
	* <b>A</b>	lysine
	В	glycine
	С	cystine
	D	proline

17.	Wha	t do Hampshires, Polands, and Berkshires have in common?			
	Α	origin			
	В	popularity			
	С	ear shape			
	*D	color			
18.	How well an animal likes or accepts a feed is referred to as the:				
	Α	digestibility			
	В	composition			
	*C	palatability			
	D	balance			
19.	Ant	nrax is a disease caused by bacteria that may remain in the soil for years or longer.			
	Α	10			
	*B	40			
	С	20			
	D	30			
20.	Whi	ch polled breed of cattle originated from horned cattle due to a genetic mutation?			
	Α	Red Poll			
	*B	Polled Hereford			
	С	Red Angus			
	D	Galloway			
21.	Diseases caused by a virus or bacteria are classed as:				
	Α	physiological			
	В	morphological			
	С	nutritional			
	*D	pathogenic			
22.	The rate or percentage of animals becoming pregnant.				
	Α	parturition			
	В	breeding soundness			
	*C	conception rate			
	D	hybrid vigor			
23.	The biggest problem of raising sheep is the loss caused by:				
	* <b>A</b>	internal parasites			
	В	Blue tongue			
	С	Overeating disease			
	D	external parasites			
24.	A visual evaluation of the amount of muscle on a hog is best seen by looking at the view				
		ne hog.			
	A *B	top			
		rear front			
	С	front			
	D	side			

25.	Whi	ch of the following vitamins is in the category of water-soluble?		
	Α	Vitamin D		
	*B	Vitamin B		
	С	Vitamin E		
	D	Vitamin A		
26.	According to USDA, the greatest expense in the production of livestock is:			
	Α	contract and hired labor		
	В	livestock purchased		
	*C	feed purchased		
	D	fuel and electricity		
27.	One common characteristic between Yorkshire, Landrace, and Chester Whites is:			
	Α	terminal qualities		
	*B	color		
	С	maternal qualities		
	D	ear shape		
28.	The class of sheep that are evaluated more on the quality of their fleece than other sheep are known as			
	Α	Long-wool breeds		
	В	Medium-wool breeds		
	*C	Fine-wool breeds		
	D	Mutton breeds		
29.	Which trait has the highest heritability estimate in cattle?			
	* <b>A</b>	post weaning rate of gain		
	В	number of young weaned		
	С	weaning weight		
	D	fertility		
30.	Which of the following breeds of swine is best on performance of litter size?			
	Α	Poland		
	В	Berkshire		
	*C	Landrace		
	D	Duroc		
31.	Which of the following breeds of cattle is NOT primarily white to gray in color?			
	Α	White Park		
	В	Charolais		
	*C	Limousin		
	D	Chianina		
32.	Bacterial disease that affects both sheep and goats when the animal has a wound. Symptoms include stiffness, rigid jaw, and inability to eat.			
	Α	Blue Tounge		
	*B	Tetanus		
	С	Enterotoxemia		
	D	Vibriosis		

33.	Swi	ne dysentery is also known as:		
	* <b>A</b>	Bloody scours		
	В	White scours		
	С	Clostridial diarrhea		
	D	Vibrionic scours		
34.	Arc	heology has found evidence that sheep have been domesticated for years.		
	Α	2000		
	В	1000		
	*C	6000		
	D	250		
35.	Whi	ch disease affects the turbinate bones in swine?		
	Α	Leptospirosis		
	*B	Atropic Rhinitis		
	С	Actinobacillus Pleuropneumoniae		
	D	Eperythrozoonosis		
36.	The	period of time which an animal is pregnant is called:		
	Α	Estrus		
	В	Ovulation		
	С	Parturition		
	*D	Gestation		
37.	Feed additives used to prevent disease and promote growth are:			
	Α	anthelmintics		
	*B	antibiotics		
	С	antioxidants		
	D	hormones		
38.	An a	animal's central nervous system includes the brain and:		
	* <b>A</b>	spinal cord		
	В	autonomic nerves		
	С	somatic nerves		
	D	effector organ		
39.	The	most common sheep identification system is:		
	Α	freeze branding		
	В	ear notching		
	*C	ear tags		
	D	tattooing		
<b>40</b> .	The major objection of boar meat is the odor of the meat called boar taint. One compound causing boar taint is:			
	Α	Testosterone		
	В	Progesterone		
	*C	Skatole		

D

Sulfamethazine

41.	Wha	at is a common disqualification in rules for registering animals in a breed association?		
	Α	weight		
	В	size		
	*C	color markings		
	D	eyes		
42.	Cattle can generally lose from 1 to 5 percent of their weight when transported. The			
	Α	sale weight		
	В	shipping weight		
	*C	shrinkage		
	D	fillback		
43.	Archaeological evidence from the Middle East indicates domestication of the pig occurred as early as years ago.			
	Α	1000		
	В	500		
	С	5000		
	*D	9000		
44.	Α	animal is one that is of a particular breed.		
	Α	outcrossed		
	*B	purebred		
	С	crossbred		
	D	linebred		
45.	The mating of animals of different family lines within the same breed is:			
	Α	crossbreeding		
	В	inbreeding		
	*C	outcrossing		
	D	linebreeding		
46.	Whi	ch part of the ruminant stomach is recognized as the true stomach?		
	*A	Abomasum		
	В	Reticulum		
	С	Rumen		
	D	Omasum		
47.	The breed of cattle that was developed on the King Ranch in Texas and consists of 3/8 Brahman and 5/8 Shorthorn is called:			
	Α	Beefmaster		
	В	Shorthorn		
	С	Brangus		
	*D	Santa Gertrudis		
48.	The first American breed of beef cattle was the:			
	Α	Santa Gertrudis		
	В	Angus		
	С	Polled Hereford		
	*D	Texas Longhorn		

49.	Fist	ulated cattle are use primarily for studies and research.		
73.	A	health		
	В	embryo		
	C	breeding		
	*D	nutrition		
50.	A m	ethod of animal identification that uses very low temperature to change pigment color of the skin is:		
	Α	notching		
	*B	freeze brand		
	С	hot brand		
	D	tattoo		
51.	Proteins produced by an animal's immune system in response to invasion by bacteria, viruses, or parasites are:			
	Α	serums		
	*B	antibodies		
	С	vaccines		
	D	toxoids		
52.	A market where cattle are sold by public bidding, with the animals going to the highest bidder is known as a(n):			
	Α	internet market		
	*B	auction market		
	С	electronic market		
	D	contract market		
53.	Bris	ket disease affects the in cattle?		
	* <b>A</b>	heart		
	В	lungs		
	С	stomach		
	D	brain		
54.	Whi	ch feed uses fermentation in order to increase palatability?		
	Α	hay		
	*B	silage		
	С	concentrates		
	D	by-products		
55.	Yea	rlings are feeder calves between one and two years old weighing about pounds.		
	Α	100-250		
	*B	550-700		
	С	400-550		
	D	250-400		
56.	Fine	e Wool breeds of sheep include all of the following EXCEPT:		
	Α	Delaine Merino		
	В	Debouillet		
	*C	Corriedale		
	D	Rambouillet		

57.	Adn	ninistering an medicinal agent to livestock that requires placement directly into a vein is called:		
	*A	intravenous		
	В	subcutaneous		
	С	intrarumen		
	D	intramuscular		
58.	Sub	cutaneous injections are given:		
	*A	under the skin		
	В	in the muscle		
	С	orally		
	D	in the ear		
59.		ut percent of total income from all livestock marketing in the United States comes from the industry?		
	*A	38		
	В	24		
	С	52		
	D	11		
60.	Newborn animals receive immunity to diseases by drinking:			
	*A	colostrum		
	В	sterile water		
	С	fibrinogen		
	D	vaccines		
61.	What breed of cattle used in the United States came from Australia?			
	Α	Salers		
	В	Blonde d'Aquitaine		
	С	Brangus		
	*D	Murray Grey		
62.	Whi	ch information is NOT typically required for the registration of individual hogs?		
	Α	Ear notches		
	В	Date farrowed		
	С	Name of sire		
	*D	Number of teats		
63.	The reflex and response that an animal has at birth is:			
	*A	instinct		
	В	conditioning		
	С	intelligence		
	D	reasoning		
64.	Scra	apie is a disease of both sheep and goats that affects the:		
	Α	lungs		
	В	skin		
	*C	brain		
	D	digestive tract		

65.	EPD	O stands for:	
	Α	express package delivery	
	*B	expected progeny difference	
	С	extra production difference	
	D	expected product differential	
66.		ninistering a medical agent to livestock that requires placement into the skin is a(n) ction.	
	*A	intradermal	
	В	intramuscular	
	С	intravenous	
	D	intramammary	
67.		reed of cattle that originated in Scotland that has a smooth hair coat, black in color, polled, and is of the most popular breeds in the United States today:	
	Α	Gelbvieh	
	В	Polled Hereford	
	*C	Angus	
	D	Devon	
68.	The	average daily gain for growing cattle on full feed.	
	* <b>A</b>	3 lb/day	
	В	10 lb/day	
	С	5 lb/day	
	D	1 lb/day	
69.	A chronic degenerative disease that affects the central nervous system of cattle (also called "Mad Cow Disease")		
	Α	Infectious Bovine Rhinotracheitis	
	В	Keratoconjunctivitis	
	С	Bovine Respiratory Syncytial Virus	
	*D	Bovine Spongiform Encephalopathy	
70.	Exte	ernal fat on a lamb carcass is measured between which two ribs?	
	* <b>A</b>	12 & 13	
	В	1 & 2	
	С	9 & 10	
	D	3 & 4	
71.	Wha	at is the only breed of sheep raised for fur in the United States?	
	Α	Dorset	
	В	Merino	
	*C	Karakul	
	D	Cheviot	
72.	Whi	ch trait for swine has the lowest heritability estimate?	
	* <b>A</b>	Litter size	
	В	Percent ham	
	С	Carcass Length	
	D	Loin muscle area	

73.	The physical appearance of an animal is known as:			
	*A	phenotype		
	В	pedigree		
	С	genotype		
	D	performance		
74.	Which protein concentrate is limited to use by ruminants?			
	Α	meat scraps		
	В	molasses		
	С	soybean meal		
	*D	urea		
75.		Pork Promotion, Research and Consumer Information Act of 1985 established an assessment of _ per \$100 value of pork sold in the United States		
	A B	75 cents 60 cents		
	*С			
	D	<b>40 cents</b> \$1.00		
	D	\$1.00		
76.		ch of the following breeds of cattle was originally red in color?		
	Α	Galloway		
	В	Brangus		
	*C	Gelbvieh		
	D	Brown Swiss		
77.	One common characteristic between Hampshire, Yorkshire, and Berkshire swine is:			
	Α	color		
	*B	erect ears		
	С	maternal qualities		
	D	terminal qualities		
78.	Esti	rus in cattle usually occurs every:		
	Α	30 days		
	В	12 days		
	С	60 days		
	*D	21 days		
79.	A po	ermanent change in the genotype of an offspring from that of its parents.		
	*A	mutation		
	В	mitosis		
	С	dominance		
	D	heterosis		
80.	The	most common classification of sheep is by:		
	Α	Origin		
	В	Birth numbers		
	*C	Type of wool		
	D	Carcass type		

81.	Whi	ch breed of beef cattle imported from France was originally used as draft animals?		
	* <b>A</b>	Maine-Anjou		
	В	Chianina		
	С	Brangus		
	D	Hereford		
82.		breed of swine which is white in color with erect ears and used extensively in commercial rations for the maternal characteristics is the:		
	Α	Landrace		
	В	Berkshire		
	*C	Yorkshire		
	D	Chester White		
83.	The	tube that carries air to an animal's lungs.		
	Α	esophagus		
	В	turbinate		
	*C	trachea		
	D	epidermal		
84.	Cotswold sheep are classified as:			
	Α	Fine Wool		
	В	Crossbred Wool		
	С	Medium Wool		
	*D	Long Wool		
85.	The leg and loin of a lamb are the primary wholesale meat cuts that come from the:			
	*A	hindsaddle		
	В	rack		
	С	foresaddle		
	D	chuck		
86.	Whi	ch species of livestock has a diploid number of 27 (pairs of chromosomes)?		
	*A	Sheep		
	В	Goats		
	С	Cattle		
	D	Swine		
87.	Fats and oils provide times more energy than do carbohydrates,			
	Α	10		
	В	5.5		
	*C	2.25		
	D	100		
88.	Whi	ch breed of swine does not have a predominant red color?		
	Α	Duroc		
	*B	Poland China		
	С	Tamworth		
	D	Hereford		

89.	Which breed of cattle is most popular in Europe?			
	Α	Limousin		
	В	Shorthorn		
	*C	Simmental		
	D	Maine-Anjou		
90.	The	growth and development of animals prior to birth.		
	Α	embryo		
	В	gestation		
	*C	prenatal		
	D	placental		
91.	Whi	ch Medium Wool breed was developed in the United States?		
	*A	Montadale		
	В	Southdown		
	С	Hampshire		
	D	Dorset		
92.	The	age at which an animal reaches sexual maturity is:		
	Α	adolescence		
	В	parturition		
	С	heterosis		
	*D	puberty		
93.	The most serious health problem of sheep and goats is:			
	*A	Internal parasites		
	В	Bacterial diseases		
	С	External parasites		
	D	Nutritional deficiencies		
94.	Whi	ch breed of swine developed in the United States originated in the state of New York / New Jersey?		
	Α	Hampshire		
	В	Landrace		
	С	Pietrain		
	*D	Duroc		
95.	Which exotic breed of cattle originated from Italy?			
	Α	Limousin		
	В	Devon		
	С	Simmental		
	*D	Chianina		
96.	The male bovine of any age that has not been castrated.			
	Α	Boar		
	*B	Bull		
	С	Ram		
	D	Buck		

97.	Whi	ch of the following minerals is a trace mineral?
	Α	potassium
	В	calcium
	С	sodium
	*D	selenium
98.	Whi	ch state has the greatest total number of beef cattle?
	* <b>A</b>	Texas
	В	California
	С	Kentucky
	D	Nebraska
99.		attle producer that produces breeding stock including bulls and females for cow-calf operations is amonly called a:
	* <b>A</b>	seedstock/purebred breeder
	В	feedyard manager
	С	stocker operator
	D	commercial cattleman
100.	In 19	985, a one dollar per head checkoff for every head of beef sold in the United
	* <b>A</b>	Beef Promotion and Research Act
	В	Livestock Marketing Tax
	С	Beef Quality Assurance Act
	D	Packers and Stockyard Act
101.	Soli	d floors in hog houses are usually made of
	Α	wood
	*B	concrete
	С	earthen
	D	pea gravel
102.		y of the odor problems from confinement operations are related to the release of from nure.
	Α	sulfur
	В	methane
	*C	ammonia
	D	carbon dioxide
103.	Nuti	rients, which an animal can synthesize for growth and maintenance, are in a category called:
	*A	non-essential nutrients
	В	minerals
	С	essential nutrients
	D	protein
104.	The	normal body temperature of cattle is:
	Α	104.6 oF
	В	100.1 oF
	*C	101.5 oF
	D	98.6 oF

105.	The	swine trait having the highest heritability estimate is:
	Α	backfat thickness
	*B	carcass length
	С	birthweight
	D	growth rate
106.	Dise	ase caused by an organism that mainly affects the lungs.
	Α	leptospirosis
	В	brucellosis
	С	erysipelas
	*D	tuberculosis
107.		is the practice of feeding a ration for ten days to two weeks before breeding.
	Α	Culling
	В	Waiting
	С	Rationing
	*D	Flushing
108.		I that is provided to young animals as an extra ration and is fed in an area that is inaccessible to the ners is called a:
	* <b>A</b>	creep feed
	В	maintenance feed
	С	lactation ration
	D	finishing ration
109.	The	breed of swine can be traced to the early 1700's?
	Α	Poland China
	В	Duroc
	С	Hampshire
	*D	Berkshire
110.	A sir	ngle stomach animal can synthesize of the 22 required amino acids.
	Α	2
	В	0
	С	22
	*D	12
111.	Wha	t is the most important nutrient in a swine ration?
	Α	soybean meal
	В	corn
	*C	water
	D	roughage
112.	The	first of the Continental breeds to be imported in the United States:
	Α	Simmental
	В	Salers
	*C	Charolais
	D	Limousin

113.	The	removal of all or part of the tail from sheep is referred to as:
	Α	notching
	В	castration
	С	dehorning
	*D	docking
114.	Whic	ch of the following countries has the greatest number of hogs?
	Α	USA
	В	Germany
	*C	China
	D	Denmark
115.	Calv	es younger than 3 months of age sold for slaughter are:
	Α	kids
	В	cabritos
	С	baby beef
	*D	veal
116.	An ir	npairment that affects the performance of the vital life functions.
	*A	disease
	В	protozoa
	С	parasite
	D	metabolism
117.	Milk	fever is a nutritional disease affecting both sheep and goats during lactation due to a lack of in the blood.
	Α	iron
	В	selenium
	С	iodine
	*D	calcium
118.	The I	breed of sheep noted for producing a 200 to 250 percent lamb crop:
	Α	Delaine Merino
	В	Southdown
	С	Leicester
	*D	Finnsheep
119.	Whe	n evaluating swine performance data, litter weights are adjusted to a standard of how many days?
	*A	21 days
	В	15 days
	С	28 days
	D	12 days
120.	Whe	n using ultrasound to evaluate breeding swine, the two measurements taken are backfat thickness
	Α	marbling
	*B	loin-eye area
	С	lean percent
	D	internal fat

121.	Bree	eds of cattle that are used for both milk and meat production are considered to be:
	Α	terminal breeds
	В	continental breeds
	*C	dual-purpose breeds
	D	maternal breeds
122.	The	majority of medium wool breeds of sheep originated in:
	Α	Scotland
	В	Australia
	*C	England
	D	United States
123.	The	average feed conversion ratio for beef cattle on full feed is:
	Α	3:1-4:1
	*B	6:1-7:1
	С	2:1-3:1
	D	10:1-12:1
124.	Bab	y pigs require temperatures of degrees F.
	Α	50-60
	В	70-80
	С	60-70
	*D	80-90
125.	Whi	ch trait in sheep has the lowest heritability estimate?
	*A	feed efficiency
	В	rib eye area
	С	mature weight
	D	yearling weight
126.	Whi	ch of the following is water-soluble vitamin?
	Α	potassium
	*B	pantothenic acid
	С	vitamin A
	D	selenium
127.	Catt	le infected with this disease often abort during the last half of pregnancy.
	*A	Brucellosis
	В	Enteritis
	С	Actinobacillosis
	D	Paratuberculosis
128.	Whi	ch of the following traits is considered undesirable when judging market lambs?
	Α	harder handling
	*B	early maturing
	С	greater size
	D	heavier muscled

129.	Lam	b prices vary throughout the year and reach a high during which time?
	Α	December to Feburary
	В	September to November
	*C	·
	D	June to August
130.	The	record of the ancestors of a particular animal is recorded in its:
	Α	genetic map
	В	performance record
	С	phenotype
	*D	pedigree
131.	Goa	t meat is marketed under the name:
	Α	Veal
	В	Venison
	*C	Chevon
	D	Mutton
132.	Whi	ch breed of goat produces mohair?
	*A	Angora
	В	Boer
	С	Toggenburg
	D	Nubian
133.	Lam	bs are commonly weaned at about months of age.
	Α	four
	В	two
	*C	three
	D	six
134.		at is an animal resulting from the mating of two different breeds?
	*A	crossbred
	В	feral
	С	inbred
	D	purebred
135.		gestation time for cattle is:
	Α –	148 days
	В	350 days
	*C	283 days
	D	114 days
136.		ch breed of sheep was developed at North Carolina State University?
	Α –	Southdown
	В	Hampshire
	*C	Polled Dorset
	D	Suffolk

137.	Fee	dstuffs such as hay and silage are classified as:
	Α	proteins
	В	minerals
	*C	roughages
	D	concentrates
138.	The	total protein contained in a feed is protein.
	Α	non-digestible
	*B	crude
	С	plant
	D	digestible
139.		ne the breed of cattle which the United States Congress appropriated money in 1927 because they e almost extinct.
	*A	Texas Longhorn
	В	Beefmaster
	С	Hereford
	D	Angus
140.	A m	edication sprayed directly into the animal's nostrils is called a injection.
	Α	subcutaneous
	В	intravenous
	*C	intranasal
	D	intramuscular
141.	Two	factors that have a major influence on profitability in swine production are:
	*A	Number of pigs weaned per sow; feed efficiency
	В	Breed; feed efficiency
	С	Breed; adaptability to environment
	D	Number of pigs weaned per sow; adaptability to environment
142.	Whi	ch livestock product has the highest consumption rate in the United States?
	Α	Lamb
	*B	Beef
	С	Pork
	D	Goat
143.	Whi	ch animals cannot synthesize all of the required amino acids?
	Α	cattle
	В	herbivores
	С	sheep
	*D	swine
144.	The	most important wholesale cut of lamb is:
	Α	rib
	*B	leg
	С	foreshank
	D	shoulder

145.	Whi	ch trait in beef cattle has the highest heritability estimate?
	Α	Yearling weight
	*B	Rib eye area
	С	Weaning weight
	D	Carcass weight
146.		lications used to produce immunity in livestock that are derived from plasma and fibrinogen removed n blood are:
	*A	serums
	В	bacterins
	С	antibiotics
	D	vaccines
147.	Swi	ne are typically identified for registration by the use of:
	Α	Ear Tags
	В	Freeze Brand
	*C	Ear Notches
	D	Tattoos
148.		roximately what percent of the market hogs sold in the United States are priced on the basis of
	*A	70%
	В	90%
	С	50%
	D	30%
149.		ch breed of cattle descended from Spanish Andalusian cattle brought over by Columbus on his ond voyage?
	Α	Santa Gertrudis
	*B	Texas Longhorn
	С	Hereford
	D	Scotch Highland
150.	Whi	ch state has greatest feedlot beef cattle production?
	Α	lowa
	В	Oklahoma
	С	California
	*D	Nebraska
151.		lern domestic cattle evolved from what single early ancestor?
	*A	Aurochs
	В	Bos indicus
	С	Buffalo
	D	Bos taurus
152.	The	average dressing percentage of a steer grading choice is:
	Α	0.51
	*B	0.62
	С	0.7
	D	0.43

153.	Wha	at area of livestock production is the major issue of animal rights organizations?
	* <b>A</b>	confinement
	В	reproduction
	С	health
	D	nutrition
154.	Whi	ch of the following is NOT required on a feed tag?
	* <b>A</b>	price per CWT
	В	guaranteed analysis
	С	active drug ingredient
	D	ingredients
155.	The	largest compartment of the ruminant stomach for a mature grazing cow is called the:
	Α	reticulum
	В	omasum
	С	abomasums
	*D	rumen
156.	In s	wine, a male that has been castrated before reaching sexual maturity is called a:
	Α	wether
	В	stag
	С	boar
	*D	barrow
157.		ch state produces the most hogs?
	*A	Iowa
	В	Illinois
	С	Texas
	D	Oklahoma
158.		ch breed of swine is considered the oldest?
	Α	Yorkshire
	В	Chester White
	С	Hampshire
	*D	Berkshire
159.	Helr	ninths are of major economic importance to the livestock industry in regard to the management of:
	Α	disease
	В	external parasites
	*C	internal parasites
	D	viruses
160.		at is a free-roaming "wild" animal that was once domesticated called?
	*A	feral
	В	stag
	С	boar
	D	buck

161.	A m	aintenance ration for beef cattle is primarily:
	Α	Concentrates
	В	Carbohydrates
	С	Proteins
	*D	Roughages
162.	The	Pietrain breed of swine originated in
	Α	Germany
	В	Denmark
	*C	Belgium
	D	China
163.	Bee	f cattle or sheep born without horns are commonly referred to as:
	* <b>A</b>	polled
	В	hornless
	С	scurred
	D	bald
164.	Teta	nus is a disease.
	Α	nutritional
	*B	bacterial
	С	viral
	D	fungal
165.	Wha	t breed of sheep that has a distinctive white face originated in Scotland?
	Α	Drysdale
	В	Corriedale
		Cheviot
	D	Suffolk
166.	Cho	lera is a disease.
	Α	fungal
	В	bacterial
	*C	viral
	D	nutritional
167.	An e	essential or non-essential element or compound in a food or feed is a(n):
	Α	organic
	*B	nutrient
	С	mineral
	D	protein
168.		process of taking food nutrients through the intestinal wall is:
	Α	regurgitation
	В	mastication
	*C	absorption
	D	assimilation

169.	Mor	phological defects in livestock are caused by:
	Α	pathogens
	*B	accidents
	С	bacteria
	D	viruses
170.	The	most prevalent breed of sheep in the world is the:
	Α	Suffolk
	В	Hampshire
	*C	Merino
	D	Columbia
171.	Whi	ch country accounts for the highest percent of the world cattle population?
	* <b>A</b>	India
	В	USA
	С	Russia
	D	Australia
172.	Wha	at trait of a hog refers to its ability to raise large litters of pigs?
	Α	terminal quality
	*B	maternal quality
	С	conversion ratio
	D	yield
173.	A sy	stem that is used for trading contracts for future delivery of cattle is known as:
	Α	auction market
	*B	futures market
	С	order buying
	D	internet auction
174.	Whi	ch species of livestock is most efficient into converting feed into energy and protein?
	Α	cattle
	В	sheep
	С	goats
	*D	swine
175.		ability to initiate, sustain, and support reproduction.
	Α	gestation
	В	lactation
	*C	fertility
	D	inbreeding
176.	Whi	ch of the following minerals is categorized as a macro mineral?
	Α	Zinc
	В	lodine
	С	Manganese
	*D	Calcium

177.	The	most important factor when formulating a ration for livestock is:
	Α	size of the animal
	*B	total digestive nutrients
	С	feed cost
	D	availability of feed
178.	Feed	additives used to control worms and other internal parasites are:
	* <b>A</b>	Anthelmintics
	В	Probiotics
	С	Coccidiostats
	D	Antimicrobials
179.	Whi	ch Medium Wool breed of sheep has a white face?
	Α	Shropshire
	В	Suffolk
	*C	Dorset
	D	Hampshire
180.	Catt	le are in a class of animals which consume only plant products known as:
	Α	carnivores
	В	omnivores
	С	non-ruminants
	*D	herbivores
181.	Whi	ch of the following breeds of cattle did not originate in Italy?
	Α	Chianina
	*B	Maine Anjou
	С	Piedmontese
	D	Romagnola
182.	The	genetic makeup of an animal is called its:
	Α	phenotype
	В	dominance
	*C	genotype
	D	recessiveness
183.	Whi	ch common breed of swine was imported to the United States from Denmark?
	Α	Hereford
	*B	Landrace
	С	Yorkshire
	D	Duroc
184.	The	normal body temperature of sheep and swine is:
	Α	Below 97 o F
	В	100 o F
	*C	Above 102 o F
	D	98.6 oF

185.	Pinl	keye is a disease in cattle that is carried by
	Α	worms
	*B	insects
	С	mites
	D	rodents
186.	The	natural waviness of wool fiber is called:
	* <b>A</b>	Crimp
	В	Kemp
	С	Staple length
	D	Braid
187.	The	age of the beef animal and the amount of marbling in the carcass affect the
	Α	yield grade
	*B	quality grade
	С	dressing percentage
	D	hot carcass weight
188.	Org	anic compounds, which are the building blocks in the formation of proteins, are:
	Α	glycogens
	В	chromosomes
	С	fat-soluble vitamins
	*D	amino acids
189.	The	expected yield of a hog with an USDA quality grade of No. 2 is:
		57.4 to 60.3%
	*A	57.4 to 60.3%
	^A B	54.5 to 57.3%
	В	54.5 to 57.3%
190.	B C D	54.5 to 57.3% 49.9 to 52.2%
190.	B C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%
190.	B C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow?
190.	B C D Whi	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio
190.	B C D Whi A B	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds
190. 191.	B C D Whi A B *C	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate
	B C D Whi A B *C	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned
	B C D Whi A B *C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos.
	B C D Whi A B *C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos. cryopreservation
	B C D Whi A B *C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos. cryopreservation hydroponics
191.	B C D Whi A B *C D The *A B C	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos. cryopreservation hydroponics cloning genetic manipulation  the that are generally between six months and one year old and are sold to people
	B C D Whi A B *C D The *A B C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos. cryopreservation hydroponics cloning genetic manipulation  the that are generally between six months and one year old and are sold to people veal calves
191.	B C D Whi A B *C D The *A B C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos. cryopreservation hydroponics cloning genetic manipulation  the that are generally between six months and one year old and are sold to people veal calves packer cattle
191.	B C D Whi A B *C D The *A B C D	54.5 to 57.3% 49.9 to 52.2% 52.3 to 54.4%  ch production trait in swine is not increased when crossing with a purebred sow? Feed/gain ratio Days to 250 pounds Conception rate Litter size weaned  use of liquid nitrogen for storage of semen and embryos. cryopreservation hydroponics cloning genetic manipulation  the that are generally between six months and one year old and are sold to people veal calves

193.	A co	ondition caused by a lack of sugar in the diet:				
	Α	Parakeratosis				
	В	SMEDI				
	С	Pseudorabies				
	*D	Hypoglycemia				
194.	Amino acids are the building blocks of:					
	Α	sugars				
	В	vitamins				
	С	fats				
	*D	protein				
195.	Ran	ge production accounts for percent of the total sheep production in the United States.				
	Α	50				
	*B	70				
	С	30				
	D	10				
196.	Vita	mins that are not stored in the body and need to be consumed everyday are:				
	Α	Vitamins A,D,E, & K				
	В	fat-soluble vitamins				
	С	Selenium & Manganese				
	*D	water soluble vitamins				
197.	The use of living organisms or their products (livestock production) is also known as:					
	Α	animal rights				
	В	animal welfare				
	С	genetic engineering				
	*D	biotechnology				
198.	Pigs	s must be ear notched for, which is necessary for good record keeping.				
	* <b>A</b>	identification				
	В	grouping				
	С	sexing				
	D	vaccination				
199.	The most popular breed of registered medium wool sheep in the United States is the:					
	* <b>A</b>	Hampshire				
	В	Southdown				
	С	Rambouillet				
	D	Shropshire				
200.	The average length of gestation for goats is:					
	Α	114 days				
	*B	150 days				
	С	283 days				
	D	336 days				

201.	Joints in the skeleton of animals that allow free movement and have a fluid-filled cavity are called:				
	Α	fibrous joints			
	*B	diarthroses joints			
	С	amphiarthroses joints			
	D	cartilaginous joints			
202.	Whe	at bran and animal fat are feed concentrates that are classified as:			
	Α	grains			
	В	animal proteins			
	*C	processing by-products			
	D	plant proteins			
203.		stritional problem in cattle characterized by swelling of the tissue that attaches the hoof to the foot lameness of the animal.			
	*B	founder			
	C	anemia			
	D	bloat			
204.		n animals band together in a herd or flock, the behavior is known as:			
	Α	investigative			
	В	allelomimetic			
	С	agonistic			
	*D	gregarious			
205.	Which is the fast growing, meat-type goat with a brown head and white body and originally from South Africa?				
205.					
205.					
205.	Afric *A	ca? Boer			
205.	Afric *A B	a? Boer Angora			
205.	Afric *A	ca? Boer			
<ul><li>205.</li><li>206.</li></ul>	Afric *A B C D	Boer Angora Saanen Nubian			
	Afric *A B C D	Boer Angora Saanen Nubian ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?			
	Africa *A B C D Duri A	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05			
	Africa *A B C D Duri A B	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1			
	Africa *A B C D Duri A	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05			
206.	Africa *A B C D Duri A B *C	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1  0.01 0.03			
	Africa *A B C D Duri A B *C D	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05  0.1  0.01  0.03  ch hormone is responsible for the masculine appearance in animals?			
206.	Africa *A B C D Duri A B *C D Whica *A	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1 0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone			
206.	Africa *A B C D Duri A B *C D Whica *A B	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1 0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone Progesterone			
206.	Africa *A B C D Duri A B *C D Whica *A	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1 0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone			
206.	Africa *A B C D Duri A B *C D Whica *A B C D	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1  0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone  Progesterone Masterone			
206. 207.	Africa *A B C D Duri A B *C D Whica *A B C D	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress?  0.05 0.1 0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone Progesterone Masterone Estrogen			
206. 207.	Africa *A B C D Duri A B *C D Whica *A B C D Shee	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress? 0.05 0.1 0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone Progesterone Masterone Estrogen  ep and cattle both have multiple-compartment stomachs referred to as a(n):			
206. 207.	Africa *A B C D Duri A B *C D Whica *A B C D Sheet	Boer Angora Saanen Nubian  ng cold weather, cattle feed should be increased by what percent for each degree of cold stress? 0.05 0.1 0.01 0.03  ch hormone is responsible for the masculine appearance in animals?  Testosterone Progesterone Masterone Estrogen  ep and cattle both have multiple-compartment stomachs referred to as a(n): ruminant			

209.	Which of the following wholesale cuts of beef has the highest value?				
	Α	brisket			
	В	chuck			
	С	shank			
	*D	rib			
210.		et swine purebred associations require several items of information for the registration of individual s. Which information is NOT required?			
	Α	Number of pigs farrowed			
	В	Ear notches			
	*C	Weaning Weight			
	D	Date farrowed			
211.	Angus and Hereford cattle originated from the species:				
	* <b>A</b>	Bos taurus			
	В	Bos indicus			
	С	Bull durham			
	D	Tarentaise			
212.	Which cattle problem is associated with nutritional health?				
	Α	Pinkeye			
	*B	Bloat			
	С	Ringworm			
	D	Warts			
213.		is a disease that affects the tissue of the foot in sheep.			
	Α	Impaction			
	В	Scrapie			
	*C	Foot Rot			
	D	Tetanus			
214.	The	weight of a hot beef carcass compared to the live weight of the animal is referred to as:			
	Α	quality			
	*B	yield			
	С	balance			
	D	carcass merit			
215.	Whi	ch agency regulates the use of feed additives in the United States?			
	Α	Food and Drug Administration (FDA)			
	В	Animal Health and Production Divison (AHPD)			
	*C	United States Department of Agriculture(USDA)			
	D	Federal Register (FR)			
216.	The	average age of puberty in sheep is:			
	* <b>A</b>	6 months			
	В	18 months			
	С	12 months			
	D	3 months			

A powdering B wetting *C pelleting D grinding  218 are growths on the skin of cattle caused by a virus. A Trichomoniasis B Ringworms C Edemas *D Warts  219. Which breed of white colored swine originated in Pennsylvania? A Large Whites *B Chester White C Yorkshire D American Landrace  220. The amount of fat cover on a market steer is referred to as: A carcass merit B marbling *C finish D fleshing						
*C pelleting D grinding  218 are growths on the skin of cattle caused by a virus.  A Trichomoniasis B Ringworms C Edemas *D Warts  219. Which breed of white colored swine originated in Pennsylvania? A Large Whites *B Chester White C Yorkshire D American Landrace  220. The amount of fat cover on a market steer is referred to as: A carcass merit B marbling *C finish						
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*B Chester White C Yorkshire D American Landrace  220. The amount of fat cover on a market steer is referred to as: A carcass merit B marbling *C finish	Which breed of white colored swine originated in Pennsylvania?					
C Yorkshire D American Landrace  220. The amount of fat cover on a market steer is referred to as: A carcass merit B marbling *C finish						
D American Landrace  220. The amount of fat cover on a market steer is referred to as:     A carcass merit     B marbling     *C finish						
<ul> <li>220. The amount of fat cover on a market steer is referred to as:</li> <li>A carcass merit</li> <li>B marbling</li> <li>*C finish</li> </ul>						
<ul> <li>A carcass merit</li> <li>B marbling</li> <li>*C finish</li> </ul>						
B marbling *C finish						
*C finish						
<b>D</b> fleshing						
Beef cattle categorized as American breeds have what breed as a genetic base?						
A Hereford						
B Shorthorn						
C Angus						
*D Brahman						
222. A complex protein produced by living cells that causes changes in other substances in the body was being changed itself and without becoming a part of the product is a(n):	ithou					
A lipid						
*B enzyme						
C vitamin						
D steroid						
223. Beef Quality Assurance protocol suggests the proper intramuscular injection site for cattle is the:						
*A Neck						
B Hind quarter						
C Shoulder						
<b>D</b> Rump						
224. What breed of hair sheep originated in Texas?						
A Rambouillet						
B Rabo Largo						
*C Barbado						
<b>D</b> Suffolk						

225.	Which breed of medium wool sheep has the characteristics of white ears, face, nose, and legs?				
	Α	Hampshire			
	В	Southdown			
	С	Shropshire			
	*D	Dorset			
226.	Whi	ch of the following countries produces the most sheep?			
	Α	England			
	В	USA			
	*C	Australia			
	D	Scotland			
227.	The	secretion and production of milk in sheep, cattle and swine is known as:			
	Α	anestrous			
	*B	lactation			
	С	fertilization			
	D	ovulation			
228.	The	degree to which the crossbred offspring out performs its purebred parents is:			
	Α	high performance			
	В	phenotype			
	С	ratio condition			
	*D	hybrid vigor			
229.	What month of the year is the price of slaughter hogs the highest on average?				
	Α	October			
	В	March			
	С	December			
	*D	July			
230.	Run	ninant animals can synthesize of the 22 required amino acids.			
	Α	10			
	В	18			
	*C	22			
	D	0			
231.	The length of the estrous cycle for a ewe is:				
	Α	72 hours			
	В	21 days			
	С	14 days			
	*D	17 days			
232.	Wha	nt hormone is produced primarily by the ovaries in female animals?			
	Α	infundibulum			
	В	testosterone			
	*C	estrogen			
	D	globulin			

233.	Rati	ons formulated to keep an animal at its current weight and size is a ration.			
	Α	gestation			
	В	weaning			
	С	finishing			
	*D	maintenance			
234.		elective form of breeding in which the sire and dam are related which some refer to as a mild form of eeding is called:			
	Α	terminal			
	*B	linebreeding			
	С	outcrossing			
	D	crossbreeding			
235.	The	majority of composite breeds of cattle in the United States use what breed as a foundation?			
	Α	Polled Hereford			
	В	Charolais			
	*C	Brahman			
	D	Brown Swiss			
236.	Whe	en evaluating sheep, the term that refers to ruggedness and stamina is:			
	Α	condition			
	*B	constitution			
	С	character			
	D	balance			
237.	The	critical stage of production in livestock when giving birth to their offspring is:			
	Α	palpation			
	*B	parturition			
	С	gestation			
	D	pregnancy			
238.	Whi	ch of the following elements is not a component of a carbohydrate?			
	Α	Oxygen			
	*B	Nitrogen			
	С	Carbon			
	D	Hydrogen			
239.	The first milk produced by a cow after giving birth is known as:				
	Α	lactose			
	В	buttermilk			
	*C	colostrum			
	D	skim milk			
240.	follo	sease that affects cattle and sheep with symptoms of lameness, followed by depression and fever, bwed by swelling in the muscles of the hip, shoulder, chest. Back, and neck, with sudden death hin 3 days of the onset of the symptoms is:			
	* <b>A</b>	blackleg			
	В	leptospirosis			
	С	pneumonia			
	D	distemper			

241.	A nutritional problem characterized by a swollen abdomen on the left side, labored breathing, profuse salivation, groaning, lack of appetite, and stiffness.					
	Α	colic				
	В	founder				
	С	anemia				
	*D	bloat				
242.		e than one-half of all the crossbred sheep in the United States carry some percentage of the icular breed.				
	*A	Rambouillet				
	В	Merino				
	С	Dorset				
	D	Columbia				
243.	Swi	ne are in a class of animals that consume both plants and meat known as:				
	Α	herbivores				
	В	carnivores				
	*C	omnivores				
	D	ruminants				
244.	Meat provides about what percent of the animal protein consumed in the world?					
	Α	0.55				
	В	0.9				
	С	0.1				
	*D	0.35				
245.	An objectionable inherited defect in swine known as a whorl is actually a(n):					
	*A	hair disturbance				
	В	defective color				
	С	inverted teat				
	D	extra dewclaw				
246.	Limousin, Charolais, and Maine-Anjou cattle are important breeds used in U.S. beef production that all originated from:					
	Α	England				
	В	Italy				
	С	Scotland				
	*D	France				
247.	A male sheep castrated before reaching sexual maturity is called a:					
	Α	ram				
	В	mutton				
	*C	wether				
	D	buck				
248.	Whi	ch of the following feeds is highest in total digestible nutrients (TDN)?				
	* <b>A</b>	corn				
	В	sudangrass				
	С	silage				
	D	coastal Bermuda				

249.	The process of preparing calves for the stress of being moved into the feedlot is called:				
	Α	stockering			
	В	stretching			
	С	finishing			
	*D	preconditioning			
250.	In comparing breed performance for litter size in swine, which breed has the highest litter size ratio?				
	Α	Chester White			
	В	Hampshire			
	С	Duroc			
	*D	Landrace			
251.	Whi	ch breed of sheep has the strongest flocking instinct?			
	Α	Leicester			
	*B	Rambouillet			
	С	Shropshire			
	D	Suffolk			
252.	Which of the following medium wool breeds of sheep are solid white in color?				
	Α	Southdown			
	*B	Dorset			
	С	Oxford			
	D	Shropshire			
253.	The testes produce sperm cells and the male sex hormone:				
	Α	estrogen			
	*B	testosterone			
	С	infundibulum			
	D	progesterone			
254.	The	estrous cycle in swine occurs:			
	*A	every 21 days			
	В	twice per year			
	С	bi-monthly			
	D	weekly			
255.	The length of gestation for swine is an average of how many days?				
	Α	148 days			
	В	283 days			
	С	151 days			
	*D	114 days			
256.	A method of animal identification that is a puncture in the skin of numbers or letters is known as:				
	* <b>A</b>	tattoo			
	В	freeze brand			
	С	hot brand			
	D	eartag			

257.	Animals that through selection and breeding have come to resemble one another and pass those traits uniformly to their offspring are defined as:				
	Α	a hybrid			
	В	progeny			
	*C	a breed			
	D	genetics			
258.	Acce	elerated lambing is a system that produces lamb crops in two years.			
	Α	four			
	В	one			
	*C	three			
	D	two			
259.	The recommended protein percent of a grower ration for swine from weaning to 75 pounds is:				
	Α	0.19			
	В	0.12			
	С	0.22			
	*D	0.16			
260.	Whic	ch breed of beef cattle has been the leader on total number registered since 1970?			
	Α	Hereford			
	В	Simmental			
	С	Charolais			
	*D	Angus			
261.	A disease carried by insects that affect the eyes of cattle is:				
	Α	leptospirosis			
	В	brucellosis			
	С	anthrax			
	*D	pinkeye			
262.	The	amount of ammoniacal nitrogen in a feed multiplied by 6.25 is the content of a feed.			
	Α	fiber			
	*B	crude protein			
	С	fat			
	D	vitamins			
263.	Which major swine breed originated in England, with the major development of the breed occurring in Kentucky? Originally known as the Thin Rind.				
	Α	Chester White			
	В	Poland China			
	*C	Hampshire			
	D	Duroc			
264.	The state having the highest population of sheep and lambs is:				
	Α	Wyoming			
	В	Colorado			
	*C	Texas			
	D	California			

265.	The feed component containing the most easily digested carbohydrates is the:					
	Α	amino acids				
	В	minerals				
	*C	nitrogen free extract				
	D	crude fiber				
266.	Dise	eases present in the animal's body at levels too low to cause visible effects are:				
	* <b>A</b>	subclinical				
	В	probiosis				
	С	chemobiotics				
	D	subtherapeutic				
267.	Feed	Feed additives in swine rations that control internal parasites are:				
	Α	amino acids				
	В	vitamins				
	С	antibiotics				
	*D	anthelmintics				
268.	Suffolk sheep ancestry goes back to what breed of sheep?					
	Α	Merino				
	В	Dorset				
	С	Rambouillet				
	*D	Southdown				
269.	Cattle have how many pairs of chromosomes?					
	Α	60				
	*B	30				
	С	24				
	D	16				
270.	Vita	mins that are stored in the body and need not be consumed everyday are:				
	Α	B complex vitamins				
	В	selenium & manganese				
	*C	fat soluble				
	D	water soluble				
271.	What is the average normal temperature of healthy swine in degrees Fahrenheit?					
	* <b>A</b>	102.6				
	В	98.6				
	С	104.1				
	D	100.4				
272.	In a swine carcass, the loin is about percent of the total carcass.					
	Α	0.3				
	В	0.4				
	*C	0.2				
	D	0.1				

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273. What feedstuff contributes most of the carbohydrates in swine rati	ons?	
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- A oats
- B soybean meal
- C alfalfa meal
- \*D corn

## 274. The most common parasites affecting beef cattle are:

- A ticks
- \*B flies
- **C** roundworms
- D liver flukes

## 275. The breeds of cattle with origin in Europe such as Charolais, Simmental, and Limousin are usually referred to as:

- \*A Continental breeds
- **B** British breeds
- C Commercial breeds
- D Maternal breeds