		O15 NC State Hippology Contest Senior Written Name('/
Directi		ease bubble your answers on your scantron shee			- t must be
		your completed scantron.	,	,	
101.	What le	ength of time does food stay in the stomach of h	orses?		
		24 hours		3-6 hours	
	b.	2 days	d.	15-45 min	
102	\A/b at a	art of the horse's digastive treat is responsible for	ar braaking	coolulos aucob	
102.		art of the horse's digestive tract is responsible for Stomach	_	Cecum	
		Small Intestine		Large Colon	
	Б.	Jillali liitestille	u.	Large Colon	
103.	Starche	es are long chains of what type of sugar?			
	a.	Glucose	c.	Sucrose	
	b.	Lactose	d.	Starch is not a carbohy	/drate
104	Llow m	ush of the qualleble showing a power in food is th	h a a h	د جنان ن ی و خوا	
104.		uch of the available chemical energy in food is th 10-15%		75-85%	
		20-25%		90%	
	D.	20-23/8	u.	3070	
105.	What is	the common measure of energy used to describ	e the ener	gy content of equine fe	eds?
	a.	Metabolizable Energy	C.	Digestible Energy	
	b.	Net Energy	d.	Usable Energy	
106	At what	t point during gostation should protein levels be	increased i	in the feeding regimen	s.f
100.	broodn	t point during gestation should protein levels be	increaseu i	in the reeding regimen t	וע
		First 4 months	C	Last 4 months	
		Middle 4 months		No increase is needed	
				,	
107.	When a	horse's diet is deficient in calcium, what does the	ne body do	to compensate?	
		Stimulates the horse to eat dirt that may contain			
		Pulls calcium from bones, making the bones we	ak		
		Increases conversion of vitamin D to calcium			
	d.	Nothing, as long as phosphorus levels are suffic	ient		
108.	Where	is the hypothalamus located?			
	a.	The kidney	C.	The throat	
	b.	The ovary	d.	The brain	
109.	Cushing	s's disease involves what endocrine gland?			
		Adrenal		Pituitary	
	b.	Lymph nodes	d.	Pancreas	
110	What d	oes the endocrine system control?			
		Digestion	C.	Reproduction	
		Growth		All of the above	

	a.	Progesterone	C.	Estrogen
	b.	Prostaglandin	d.	Prolactin
112.		eal gland secretes which hormone when it detects dark		
		Oxytocin		Growth Hormone
	b.	Melatonin	d.	Gonadotropin Releasing Hormone
113.	In trans	sition from anestrus to in season, what hormone is secre	eted	by the pituitary of the horse to
		arly follicular growth?		, , ,
	-	Human chorionic gonadotropin	c.	Prolactin
		Thyroid stimulating hormone		Inhibin
114.	The hor	rmone produced by the corpus luteum on the mare's ov	ary	does what?
	a.	Maintains pregnancy	c.	Generates signs of estrus
	b.	Stimulates ovulation	d.	Encourages follicular growth
115.	What is	the first step in fly management?		
	a.	Sanitation	C.	Larvicides
	b.	Insecticide	d.	Parasitic Wasps
116.		one uses the term "grade" to refer to a horse, what do	they	/ mean?
		The horse is being judged or given a grade		
		The horse is of superior pedigree and breeding		
		The horse has unknown or non-registered breeding		
	d.	The horse is exceptional at pulling or "grading" land		
117	Workin	g ranch horses represent what percent of the total hors	e no	onulation in the US?
		<10%	•	25%
		15%		50%
	D.	1570	u.	30%
118.	What c	auses spontaneous combustion in stored hay?		
		Hay with a moisture content greater than 20%		
	b.	Hay with a moisture content less than 5%		
	C.	Hay stacked cut side down		
		Magnification of sunlight through dirty barn windows		
		mag.meaner er sam.g. et meag. ant, sam timaens		
119.	How ca	n you increase the total amount of grass produced by y	our	pasture?
		Turn out cattle and horses on the same pasture		
		Refrain from mowing		
	C.	Rotate pasture use		
	d.	All of the above		
120.	What cl	haracteristic of stall bedding is not desirable?		
	a.	Absorbency	C.	Palatability
	b.	Affordability	d.	Lack of dust

111. What hormone is responsible for the mare showing "heat"?

121. Equine	Herpes Virus causes what disease?		
a.	Equine Viral Arteritis	C.	Rhino pneumonitis
b.	Vesicular stomatitis	d.	Wobblers
	owth of a horse's winter coat is triggered by:		
a.	Decrease in daylight hours		
b.			
	Decrease in temperature		
d.	Decrease in amount of exercise		
123 When	conducting Body Condition Scoring, which of the follo	wing	anatomical areas is NOT one of the
	rence points of fat deposition?	wille	anatomicar areas is NOT one of the
	Withers	C	Abdomen
	Ribs		Tail head
J.		u.	Tun ricuu
124. What i	s the vector for West Nile disease?		
a.	Deer flies	C.	Contaminated water
b.	Mosquitos	d.	Snails
	of the following is NOT on the AAEP list of CORE Vacci	nes?	
	Botulism		
	Tetanus		
	Eastern and Western Encephalomyelitis		
d.	Rabies		
126 What	s the most common cause of foal diarrhea?		
	Coronavirus	_	Norovirus
	Arteritis virus		Rotavirus
Ь.	Arteritis virus	u.	Rotaviius
127. On a ho	ot and humid summer day you notice your stationary o	older	horse breathing heavily. Her
	tory rate is greater than 30 breaths/min, her pulse is 7		
	What condition is she dealing with?		,
	Hypothermia		
	Overexertional athermia		
C.	Hyperthermia		
d.	All readings are within normal range		
	sception is another term for what type of colic?		
	Twisting	С.	
b.	Telescoping	d.	Obstruction
129 Which	of the following terms refers to a parasite that cannot	comr	plete its life cycle without exploiting
	of the following terms refers to a parasite that cannot ble host?	COM	blete its me cycle without exploiting
	Commensal Parasite	C.	Obligate Parasite
	Mutual Parasite		Facultative Parasite
٥.		۵.	
130. Ascarid	obstruction colic is most often caused by:		
a.	Change in diet	c.	The act of deworming
b.	Change in deworming product	d.	Change in season

131.	A large	infestation of bots can cause paralysis of what part of the	ne a	limentary canal?
	a.	Cecum	c.	Small Intestine
	b.	Stomach	d.	Esophagus
132.		unique about the transmission of Strongyloides wester	i?	
	a.	They can be acquired through spoiled feed		
	b.	They can live dormant in the host for several years		
	C.	They can be transferred through nose to nose contact		
	d.	They can pass to the foal through the dam's milk		
133.		the average length of the complete life cycle of the hou		
		6.5-10 days		24 hours
	b.	12-15 day <mark>s</mark>	d.	2-3 weeks
12/	M/hat to	/pe of parasite has non-functioning mouth parts in the a	dul	t nhasa?
154.		Horse Fly		Horn Fly
	D.	Bot Fly	u.	House Fly
125	Carcont	es scabieivar equi are more commonly known as:		
133.		· · · · · · · · · · · · · · · · · · ·	_	Line
		Mites		Lice
	D.	Ticks	a.	Blister Be <mark>e</mark> tles
136	What ty	pe of anthelmintic is used for the elimination of tapewo	orm	s?
150.	the state of the s	Fenbendazole		lvermectin
		Organophosphates		Praziquantel
	D.	Organophosphates	u.	riaziqualitei
127	What is	the scientific term for the front cannon bone?		
137.		Third Metacarpal	C	Fourth Metatarsal
		First Metacarpal		Second Metatarsal
	D.	riist Wetacai pai	u.	Second Metatarsar
138.	Thoraci	c vertebrae in the horse are characterized by:		
		Large transverse processes	c.	Irregular vertebral foramen
		Large spinous processes		Large ondontoid processes
		and obvious brossess		8
139.	The zyg	omatic bone can be found in what part of the anatomy	?	
	a.	Front leg	C.	Part of the skull
	b.	Within the hoof	d.	In the tail
140.	The poi	nt of the buttock is created by what part of the pelvis?		
	a.	Ilium	C.	Ischiatic tuberosity
	b.	Pubis	d.	Sacral tuberosity
141.		tal sesamoid bone is also referred to as:		
		The navicular	C.	The proximal sesamoid
	b.	The coffin bone	d.	The third phalanx
1/17	\A/ba+ +-	we have are fused in the horse yet constate in horse	2	
142.		wo bones are fused in the horse yet separate in humans Femur and tibia		Radius and ulna
			C.	
	υ.	Atlas and axis	u.	First and second metacarpals

143.	What joint is formed by the junction of the femur/tibia/fibula?							
	a.	Hock	C.	Knee				
	b.	Elbow	d.	Stifle				
144.	What is	the primary function of the nasolacrimal duct?						
	a.	Supplies a tear film to the cornea						
	b.	Drains tears from the eye to the nose						
	C.	Allows mucus to drain from the sinuses to the nose						
	d.	Keeps the mucus membranes of the eyelids moist						
145.	What s	tructure of the eye is most commonly plagued by dise	ase ir	the hors	e <mark>?</mark>			
	a.	Cornea	c.	Retina				
	b.	Choroid	d.	Iris				
146.	In what	part of the lungs does gas exchange occur?						
	a.	Bronchioles	C.	Alveoli				
	b.	Aerobic sacs	d.	Lobuli				
147.	What is	the normal stride to breath ratio of a horse at a gallo	p?					
	a.	1 stride: 2 breaths	c.	3 strides	: 2 breaths			
	b.	2 strides: 1 breath	d.	1 stride:	1 breath			
148.	What disorder can cause excessive noise or 'roaring' in the upper airway during exercise?							
	a.	Chronic Obstructive Pulmonary Disease						
	b.	Laryngeal Hemiplegia						
	c.	Exercise Induced Pulmonary Hemorrhage						
	d.	Hypoxemia						
149.	During	strenuous exercise the horse is able to release stored	red b	lood cells	to increase	oxygen		
	carrying							
	currying	g capacity. What organ stores these extra red blood co	ells?					
		g capacity. What organ stores these extra red blood co		Liver				
	a.		c.	Liver Bone ma	arrow			
	a.	Spleen	c.		arrow			
150.	a. b.	Spleen	c.		arrow			
150.	a. b. What is	Spleen Pancreas	c. d.					
150.	b. What is	Spleen Pancreas considered the maximum heart rate for a horse?	c. d.	Bone ma	/minute			
150.	b. What is	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute	c. d.	Bone ma	/minute			
	b. What is a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute	c. d.	Bone ma	/minute			
	b. What is a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute has the most critical effect on the balance of a horse?	c. d.	Bone ma	/minute /minute			
	a. b. What is a. b. Which I	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute has the most critical effect on the balance of a horse?	c. d. d. d. c. 2	Bone ma 190 beats, <mark>230 beats</mark>	/minute /minute noulder			
	a. b. What is a. b. Which I	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute has the most critical effect on the balance of a horse? depth of body	c. d. d. d. c. 2	Bone ma 190 beats, 230 beats	/minute /minute noulder			
151.	what is a. b. Which I a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute has the most critical effect on the balance of a horse? depth of body	c. d. d. d. d. d. l	Bone ma 190 beats, 230 beats	/minute /minute noulder			
151.	what is a. b. Which I a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute has the most critical effect on the balance of a horse? depth of body length of back	c. d. d. d. d. d. l	Bone ma 190 beats, 230 beats	/minute /minute noulder			
151.	a. b. What is a. b. Which I a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute nas the most critical effect on the balance of a horse? depth of body length of back ing of rib and depth of heartgirth are indicative of what	c. d. d. d. d. d. d. l	Bone ma 190 beats 230 beats angle of sh ength of l	/minute s/minute noulder hip			
151.	what is a. b. Which I a. b. The spr	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute nas the most critical effect on the balance of a horse? depth of body length of back ing of rib and depth of heartgirth are indicative of what appetite	c. d. d. d. d. lat?	Bone ma	/minute s/minute noulder hip			
151. 152.	what is a. b. Which I a. b. The spr a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute nas the most critical effect on the balance of a horse? depth of body length of back ing of rib and depth of heartgirth are indicative of what appetite	c. d.	Bone ma	/minute s/minute noulder hip			
151. 152.	what is a. b. Which I a. b. The spr a. b.	Spleen Pancreas considered the maximum heart rate for a horse? 70 beats/minute 120 beats/minute nas the most critical effect on the balance of a horse? depth of body length of back ing of rib and depth of heartgirth are indicative of wha appetite capacity	c. d. d. d. d. lat? c. d. lat? c. d.	Bone ma	/minute s/minute noulder hip			

154.	54. A horse with sickle hocks has an increased possibility to develop what?				
	a. bone spavins		c.	side bones	
	b. curbs		d.	splints	
155.	What defect in movement is typical of toe-out conform	ation			
	a. winging			plaiting	
	b. paddling		d.	pounding	
156.	What defect in movement is typical of toe-in conformation	tion?			
	a. winging			plaiting	
	b. paddling		d.	pounding	
157.	The atrophy of shoulder muscles due to paralysis of the	sup			
	a. stringhalt			sweeney	
	b. quittor		a.	fistula	
158.	Corns are caused by a constant irritation to what part o	f the	foot?		
	a. wall		C.	white line	
	b. frog		d.	sole	
159.	Which of the following is NOT a normal limb movement	t?			
	a. adduction		c.	extension	
	b. abduction		d.	compression	
160.	Which popular forage can cause mares to have a prolor the placenta, weak or dead foals, and agalactia?	nged	gestati	ion, dystocia, thickening of	
	a. Orchardgrass	•	Alfalfa	2	
	b. Fescue		Timot		
	b. Tescue	u.	1111101	ily	
161.	Where does a horse NOT have sweat glands?				
	a. face		hip ar		
	b. topline	d.	legs		
162.	Which of the following is NOT a location where a horse'	s pu	lse can	be taken with your fingers?	
	 a. lateral dorsal metatarsal artery 	C.	cauda	l auricular artery	
	b. facial/mandibular artery	d.	transv	verse facial artery	
163.	Which type of wound penetrates the full thickness of th	ne ski	in and i	is caused by a less-sharp	
	object, resulting in both tearing and cutting of skin?				
	a. Laceration		Abras		
	b. Avulsion	d.	punct	ure	
164.	Which of the following is typically NOT covered by mort	tality	insura	nce on a horse?	
	a. death of a horse due to hail	c.	death	of a horse due to lightening	
	b. death of a horse due to fire	d.	death	of horse due to disease	

165.	Which of the following will protect the insured from occurrences in which the insured can be held legally liable for bodily injury or property damage?				
	a. Property insurance	Worker's Compensation insurance			
	b. Liability insurance	d. Loss of Use insurance			
166	Which of the following is NOT an inherited lethal?				
100.	Which of the following is NOT an inherited lethal? a. Neonatal Isoerythrolysis	c. Combined Immunodeficiency			
	b. Hemophilia	d. Recurrent Uveitis			
	S. Tremoprima				
167.	The amount of air inspired or expired during a normal broad				
	a. respiratory depth	c. minute volume			
	b. tidal volume	d. respiratory frequency			
160	Which of the following is NOT a respiratory related illness	s or dysfunction?			
100.	a. Paralytic myoglobinuria	s or aystatiction:			
	b. Laryngeal hemiplegia				
	c. Chronic obstructive pulmonary disease				
	d. Exercise induced pulmonary hemorrhage				
169.	Olfaction in the horse is what?				
	a. defecation and urination	c. sense of smell			
	b. sense of sight	d. sense of hearing			
170.	The canvas used to cover the load a horse is packed with	is called what?			
	a. Manta	c. Sawbuck			
	b. Pannier	d. Sheet			
171.	What kind of leverage bit has no mouthpiece?	- Harlanana			
	a. Curb	c. Hackamore			
	b. Snaffle	d. Cavesson			
172.	Snaffle bits are used in what riding style?				
	a. English	c. Saddle Seat			
	b. Western	d. all three			
1/3.	Which is not a type of horseshoe nail?	e Pegular			
	a. City	c. Regular d. Frosthead			
	b. Country	d. Frostnead			
174.	Filing the sharp edges of molars and premolars is called v	vhat?			
	a. Rasping	c. Capping			
	b. Floating	d. Smoothing			
175.	Contingent reinforcement means that it should be given	when?			
	a. if response was wrong	c. if response was correct			
	b. immediately after response	d. sparingly			

	a trainer always rewards or punishes the horse fo on, what type of reinforcement is being used?	r ev	very response it makes, usually during
100	Continuous		c. Sporadic
b.			d. unnecessary
	mermiten		u. uninecessary
177. When a	horse focuses on one object with both eyes, it is Monocular	s usi	
	Stereo	d.	
178. A horse	's phenotype is its:		
a.	behavior		c. breed
b.	genetic make-up		d. physical appearance
			The second secon
179. Horses	have how many pairs of chromosomes?		
a.	16	c.	40
b.	32	d.	64
180. If a pair	of genes on a particular allele are different from	one	e another, the horse is considered
3 -1100001	for that trait.		
a.	Heterozygous	C.	Dominant
b.	Homozygous	d.	Recessive
181. If one g	ene on the allele masks the other, it is called wha	at?	
	Heterozygous	C.	Dominant
	Homozygous		Recessive
	, 6		
182. In what	year was the American Quarter Horse Association	n fo	ormed?
	1863	··· ··	1909
b.		d.	1940
о.	1032	u.	1940
102 If a stall	ion that is hataranisans for a smarific tunit is bus		a magazi khaki sa la a kata wa ma
	ion that is heterozygous for a specific trait is brea		
	same trait, what is the chance that the offspring		, 0
a.	25%		75%
b.	50%	d.	0%
	reed did <u>NOT</u> contribute to the creation of the Ha	ackr	ney?
a.	Arabian	C.	Morgan
b.	Thoroughbred	d.	Norfolk Trotter
185. The po	eriople is located:		
a.	At the frog	c.	Along the white line
b.	Along the coronary band	d.	Inside the sole
D.	Along the coronary band	a.	inside the sole

vvnat	layer of the uterus	s is responsible for coi	ntractions th	at lead to expulsion of t	he foal?
a.	Endometrium		C.	Serous	
b.	Myometrium		d.	Cervix	
The ol	ecranon makes up	what external featur	e of the hor	se?	
a.	Fetlock		C.	Elbow	
b.	Hock		d.	Hip	
What	kind of fly is also k	nown as a buffalo gna	at?		
a.	Horse Fly		C.	Black Fly	
b.	House Fly		d.	Horn Fly	
	127.2	res to adjust soil pH?			
	AND THE PRODUCTION OF THE PROPERTY OF THE PROP		c.		
b.	Lime		d.	Nitrogen	
		eye functions to:			
	70				
	-5				
d.	Change the lens s	shape to adjust focus			
			CDT		
		10 10 10 10 10 10 10 10 10 10 10 10 10 10 1			
	1752	1.5		ILEO	
b.	Capillary Refill Tir	ne	d.	Cardio-Respiratory Tur	bulence
Drotoi	o is sampasad of	2			
				\/ [\/'c	
			5.0		
υ.	ratty Acius		u.	None of the above	
Dinnin	g the navel of a ne	w horn foal with antis	sentic will he	eln nrevent:	
		w born rour with units	septie wiii ii	ip prevent.	
\$ 7					
		mia			
	-				
	a. b. The ol a. b. What a. b. The cil a. c. d. In refe a. b. Proteir a. b. Dippin a. c.	a. Endometrium b. Myometrium The olecranon makes up a. Fetlock b. Hock What kind of fly is also k a. Horse Fly b. House Fly What is applied to pastu a. Phosphorous b. Lime The ciliary muscle in the a. Open the eyelid b. Close the eyelid c. Move the entire of d. Change the lens s In reference to assessing a. Cardio, Respirato b. Capillary Refill Tir Protein is composed of a. Amino Acids b. Fatty Acids Dipping the navel of a ne a. Patent urachus b. Foal diarrhea c. Neonatal septicer	a. Endometrium b. Myometrium The olecranon makes up what external featur a. Fetlock b. Hock What kind of fly is also known as a buffalo gna a. Horse Fly b. House Fly What is applied to pastures to adjust soil pH? a. Phosphorous b. Lime The ciliary muscle in the eye functions to: a. Open the eyelid b. Close the eyelid c. Move the entire eyeball d. Change the lens shape to adjust focus In reference to assessing a horse's vital signs, a. Cardio, Respiratory, Temperature b. Capillary Refill Time Protein is composed of? a. Amino Acids b. Fatty Acids Dipping the navel of a new born foal with antis a. Patent urachus	a. Endometrium c. b. Myometrium d. The olecranon makes up what external feature of the hore a. Fetlock c. b. Hock d. What kind of fly is also known as a buffalo gnat? a. Horse Fly c. b. House Fly d. What is applied to pastures to adjust soil pH? a. Phosphorous c. b. Lime d. The ciliary muscle in the eye functions to: a. Open the eyelid c. Move the entire eyeball d. Change the lens shape to adjust focus In reference to assessing a horse's vital signs, CRT stands for a. Cardio, Respiratory, Temperature c. b. Capillary Refill Time d. Protein is composed of? a. Amino Acids c. b. Fatty Acids d. Dipping the navel of a new born foal with antiseptic will he a. Patent urachus b. Foal diarrhea c. Neonatal septicemia	b. Myometrium d. Cervix The olecranon makes up what external feature of the horse? a. Fetlock b. Hock d. Hip What kind of fly is also known as a buffalo gnat? a. Horse Fly b. House Fly d. Horn Fly What is applied to pastures to adjust soil pH? a. Phosphorous b. Lime d. Nitrogen The ciliary muscle in the eye functions to: a. Open the eyelid b. Close the eyelid c. Move the entire eyeball d. Change the lens shape to adjust focus In reference to assessing a horse's vital signs, CRT stands for: a. Cardio, Respiratory, Temperature b. Capillary Refill Time C. VFA's d. None of the above Dipping the navel of a new born foal with antiseptic will help prevent: a. Patent urachus b. Foal diarrhea c. Neonatal septicemia

194.	What type of cells is mainly responsible for spermatozoa development?						
	a.	Sertoli	c.	Leydig			
	b.	Epithelial	d.	Ova			
195.	Extens	or muscles and tendons on the front legs do w	hat?				
	a.	Flex the leg	C.	Straighten the leg			
	b.	Provide cushion for landing	d.	None of the above			
196.	What	vitamin deficiency is known to cause weak hoo	f wall	s?			
	a.	Vitamin K	c.	Vitamin A			
	b.	Vitamin B	d.	Vitamin C			
197.	What	does COPD stand for?					
	a.	Chronic Obsessive Pulmonary Disease					
	b.	Chronic Obstructive Pulmonary Disease					
	C.	Continuous Obstructive Pulmonary Distress					
	d.	Continuous Overexertional Pulmonary Distres	SS				
198.	To wh	at zoological family do horses belong?					
	a.	Equidae	c.	Mammalia			
	b.	Equus	d.	Perissodactyla			
199.	A hors	e with this condition has a depraved appetite a	and m	nay eat dirt, wood, hair, bones, or			
	other	atypical things.					
	a.	Anorexia	C.	Pica			
	b.	Colic	d.	Semi-cannibalism			
200.	What	type of blanket is most commonly used on hors	ses af	ter exercise?			
	a.	Cooler	c.	Turnout			
	b.	Rug	d.	Stable			
C	ONGRA	ATULATIONS! You are finished. Look back over	your	answers and check your scantron			

congratulations! You are finished. Look back over your answers and check your scantron to make sure everything has been bubbled correctly. Also, make sure your contestant # is written in and bubbled in the student ID section of scantron on side 1. On side two, write in your name and also write your contestant # beside your name.