Contestant ID:	Contestant Name:	2 points/correct answer (200)

2011 NYS 4H Hippology Contest

Senior Written Examination

Semon Wille	T Examination
Place the letter of the best answer for ea	ch question on the answer sheet provided
1. Veins differ from arteries in that they:	7. Bones of the hock include all of the following except:
A. have thicker walls	A. talus
B. don't usually have valves	B. calcaneus
C. have valves, the cusps which direct	C. third metatarsal bone
blood away from the heart	D. accessory bone
D. contain a larger volume of blood	,
-	8. Psyllium is fed to horses which are predisposed to
2. The is the junction of the skin and the soft	having:
horn of the periople.	A. sand colic
A. Coronet	B. anemia
B. heel	C. constipation
C. quarter	D. diarrhea
D. toe	
	9. The suspensory apparatus is important for holding
3 is a chronic infection of the frog in which dark,	which joint?
foul-smelling dead tissue occurs in the central and	A. Stifle
collateral grooves.	B. Hock
 A. White line disease 	C. Coffin
B. Navicular disease	D. Fetlock
C. Laminitis	
D. Thrush	10. The sutures of the skull and syndesmosis joints
	between shafts of some long bones are examples of
4. The is collagenous connective tissue	joints.
immediately beneath the hoof wall, containing	A. cartilaginous
many nourishing blood vessels and nerve endings.	B. fibrous
A. corium	C. synovial
B. periople	D. ellipsoid
C. laminae	
D. white line	11. Appaloosas are commonly referred to as what type of breed?
5. Navicular disease is a progressive, degenerative	A. stock horse
condition of the navicular bone, also affecting the	B. performance horse
navicular bursa and overlying	C. sporthorse
 A. Superficial digital flexor tendon 	D. halter horse
B. Deep digital flexor tendon	
C. Distal sesamoidean ligaments	12. A hog's back is:
D. Collateral sesamoidean ligaments	A. a type of jump
	B. a type of rope
6. The greater trochanter is located on the	C. a type of saddle
surface of the femur	D. a type of saddle pad
A. medial	
B. lateral	

C. cranialD. caudal

	akehner is a type of what kind of horse?	21. How long is the spermatogenic cycle in a stallion?
	gaited	A. 49-56 days (7-8 weeks)
	stock	B. 35 days (5 weeks)
	sport	C. 64 days (9 weeks)
D.	draft	D. 70 days (10 weeks)
14. Wha	it breeds are allowed to compete in Dressage?	22. When is the mare in anestrus?
A.	warmblood	A. during the winter or shorter daylight
В.	any	hours
C.	Thoroughbred	B. during the summer or longer daylight
D.	Trakehner	hours
		C. during an equinox or when light and dark
	t is <u>not</u> a type of insurance coverage for horses?	are the same length
	Loss of Use	D. during show season
	Major Medical	
	Mortality	23. What portion of the hoof should never directly bear
D.	Workers Comp	weight?
46 144		A. frog
	it is <u>not</u> an important criteria to consider when	B. sole
	ng bedding?	C. hoof wall
	ease of handling	D. laminae
	availability and price	24 Hayana af which cook color are mark commonly
	absorption	24. Horses of which coat color are more commonly
D.	aesthetic qualities	prone to melanomas? A. Cremello horses
17 Mhi	ch type of use is Board Fencing <u>not</u> ideal for?	
	mares and Foals	B. Grey horses C. Perlino horses
	stallion Fencing	D. Arabians
	show and Sale Horse Paddocks	D. Alabians
	arenas	25. How many minutes does one chukker last?
٥.	urenus	A. 5.3 minutes
18. Corr	ectly composting manure will NOT :	B. 9 minutes
	kill fly eggs	C. 7.5 minutes
В.		D. 15 minutes
	kill larvae	
	Remove organic matter	26. Another name for septicemia is:
		A. blood poisoning
19. Wha	it is the function of the broad ligament?	B. urinary Tract Infection
	A. holds the scapula to the vertebral column	C. heaves
	B. it is part of the bowstring effect	D. pneumonia
	C. suspends the uterus within the body cavity	·
	D. attaches the sacrum to the pelvis	27. What portion of the hoof does an egg bar shoe
		support?
20. Wha	t are Type IIB muscle fibers used for?	A. quarter
	A. peed at longer distances	B. toe
	B. short and very fast bursts of energy	C. heel
	C. endurance	D. wall
	D. trail riding	

28. The process of desensitization of a foal is known as	35. CP is an abbreviation for:
what?	A. Crude Protein
A. natural horsemanship	B. Crude PhosphorusC. Coarse Protein
B. imprint trainingC. normal training	
D. rational training	D. Congugated Protein
D. Tational training	36. What is the name of the substance consumed by a
29. Hyperthermia is a term used to indicate what	foal that can act as a laxative to eliminate the
condition of a horse?	meconium?
A. freezing	A. Iodine
B. getting used to a new climate	B. Streptomycin
C. overheating	C. Colostrum
D. exhaustion	D. Immunoglobulins
30. Moon blindness is also called:	37. What is the diploid number of chromosomes of
A. equine periodic ophthalmia	Equus asinus?
B. cataract	A. 66
C. blindness	B. 64
D. glass-eyes	C. 62
	D. 60
31. What does corpus albicans refer to?	
A. the same as corpus luteum	38. Theis caudal to the withers.
B. the space left by the ovulated egg that is	A. poll
filled with blood	B. carpus
C. a degenerating corpus luteum	C. tarsus
D. a pre-ovulatory egg	D. shoulder
32. The most important muscle responsible for	39. Theplane separates the horse into
respiration is:	equal left and right parts
A. diaphragm	A. transverse
B. intercostal muscles	B. sagittal
C. lungs	C. median
D. abdominal muscles	D. dorsal
33. Which paint coat color is associated with the	40. A is a white patch between the nostrils.
genetic disease Megacolon?	A. bald face
A. Frame	B. star
B. Sabino	C. stripe
C. Splashed White	D. snip
D. Tobiano	
24. Which of the following is not a recoiratory	41. Epidermis tissue is:
34. Which of the following is not a respiratory disorder?	A. dense fibrous tissue
A. Exercise Induced Pulmonary Haemorrhage	B. stratified squamous tissue
(EIPH)	C. collagenous tissueD. loose connective tissue
B. Equine Influenza	D. Toose connective tissue
C. Chronic Obstructive Pulmonary Disease	42. Smegma from the prepuce is produced by:
(COPD)	A. sebaceous glands
D. Hyperkalemic Periodic Paralysis (HYPP)	B. apocrine tubular glands
	C. subcutis
	D. dermis
	D. Germio

43. Secretion of	of sweat by glands is	51. The longe	st muscle on the horse is called:		
stimulated by motor nerves and by the hormone		A.	A. latissimus		
A.	sebaceous, epinephrine	B.	omotransversarius		
B.	sensory, testosterone	C.	longissimus		
C.	apocrine, epinephrine	D.	sternomandibularis		
D.	sebaceous, testosterone				
		52. Why does	the horse rank low on the intelligence		
44. The sternu	m is part of the:	test?			
A.	appendicular skeleton	A.	lacks ability to reason		
В.	axial skeleton	B.	can respond to cues		
C.	forelimb	C.	has no long term memory		
D.	hindlimb	D.	cannot distinguish subtle cues		
45. The correc	t equine vertebral formula is:	53. Which of t	he following does <u>not</u> describe an animal		
	$C_7 T_{18} L_6 S_5 Ca_{15-21}$	in the order pe			
	$C_7C_{18}C_9S_5Ca_{15-21}$ $C_7C_{18}C_9S_5Ca_{15-21}$	·	odd toed		
	C ₇ T ₁₈ L ₆ S ₈ Ca ₁₅₋₂₁		non-ruminating		
	C ₇ T ₁₃ L ₆ S ₅ Ca ₁₅₋₂₁		hoofed		
D.	C7113L635Ca15-21		even toed		
16 The most o	common cause of wobbler syndrome is	D.	even toeu		
	of certainvertebrae.	E4. The skelets	al system of the horse functions as:		
	lumbar		al system of the horse functions as:		
		A.	levers, stores minerals, blood cell		
	thoracic	D	formation		
	cervical	В.	levers, protects organs, regulates		
D.	sacral	•	sodium levels		
47 7	Land the Lands to the control of the	C.	provides framework for muscles,		
	d cervical vertebrae is known as the	5	protects organs, and filters fluid		
	axis	D.	stores minerals and releases hormones		
	atlas		for growth		
	caudal				
D.	dens		ental formula stands for what?		
			post incisor		
_	has pairs of ribs.		premature canine		
A.	15		premolar		
В.		D.	pre incisor		
C.					
D.	20		e name of the groove on the horse's		
			sors that can be used to tell a horse's age		
49. Floating rik		from 10-3	•		
	true ribs		Cantanda's groove		
	asternal ribs		Galvayne's groove		
C.	sternebrae	C.	tuberosity groove		
D.	xiphoid processes	D.	Sudden's groove		
50 . Initial dom	nestication of horses occurred in which	57. Why can a	horse's teeth only offer an "estimate" of		
	n 2500 B.C and 4500 BC	age?	,		
•	China and Poland	_	environmental conditions		
	China and Mesopotamia		breed differences		
	Spain and France		horses lose teeth too often		
	France and India		genetic conditions may impede tooth		
D.		О.	growth		

58. Which of the following is <u>not</u> a joint of the front limb?		66. This disease is characterized by the destruction of a foal's red blood cells by serum antibodies in the	
A.	carpus	colostrum	of the mare:
B.	pastern	A.	combined immunodeficiency
C.	coffin	B.	isoerythrolysis
D.	hock	C.	lethal white
		D.	hemophilia
59. The largest	tissue mass in the horse's body is:		•
A.	skin	67. Poisoning b	y Japanese yew will cause:
В.	muscle	A.	liver cirrhosis
C.	intestines	B.	hemolytic anemia
D.	blood		photosensitization
			nervous system damage
60. Type one m	nuscle fibers are known as:		,
A.	slow twitch	68. Which side	of the heart has a thicker wall and why?
В.	fast twitch	A.	left because there is more room in the
C.	high glycolytic		cavity for growth
	high oxidative	В.	left because it must supply force to
	-		move blood through systemic
61. What is the	name of the blemish caused by		circulation
	ne plantar ligament?	C.	right because it must supply force to
	curb		move blood through systemic
B.	wind gall		circulation
	windpuffs	D.	right because the cardiac notch in the
	bursitis		lung provides excellent oxygenation of
			the tissue
62. What bond	in ATP provides the most energy when		
broken?		69. Geophagia	is the act of eating:
A.	phosphate		dirt
	adenine	B.	wood
C.	thyrine	C.	feces
D.	tyrosine	D.	hair
	name of the organelle in muscle tissue	70. Endometri	al cups are formed on the day of
responsible for	ATP production?	gestation	
A.	lysosomes	A.	
В.	mitochondria	В.	
C.	endoplasmic reticulum	C.	36 th
D.	golgi body	D.	40 th
CA The fellows		70. Dalavia is s	a such ad but the a
	ng are functions of the respiratory	70. Relaxin is s	
system <u>except</u> :			uterus
	removal of gas		placenta
	temperature regulations		udder
	phonation	D.	ovaries
D.	ion exchange	74 44 4	
c=	6.1		orse's cardiac output is approximately:
	name of the cartilaginous flap that		35 liters/min
	hea during swallowing?		20 liters/min
	larynx		10 liters/min
	pharynx	D.	12.5 liters/min
	epiglottis		
D.	arytenoid		

72. What is the term for the blood stored in the spleen?	80. Soybean meal contains approximately protein:
A. reserve erythrocytes	A. 20%
B. splanchnic reservoir	B. 30% C. 45%
C. leukocytopenia	D. 60%
D. spleen expansion and contraction	D. 60%
73. The life span of erythrocytes is:	81. The hip joint is an example of ajoint.
A. 120-130 days	A. ball-and-socket
B. 100-120 days	B. hinge
C. 120-150 days	C. pivot
D. 150-180 days	D. plane
74. The vomeronasal organ contains:	82. The radius combines with what bone to form the
 A. olfactory receptors 	forearm?
B. gustatory receptors	A. scapula
C. auditory receptors	B. humerus
D. salivary receptors	C. ulna
	D. knee
75. Myopia is when the image is formed:	
A. in front of the eye	83. What is the common name for the outer coverings
B. in front of the retina	of grains?
C. behind the eye	A. hulls
D. behind the retina	B. shells
	C. meal
76. A chronic, purulent swelling of the lateral cartilage	D. holes
of the hoof, resulting in subcoronary abscesses is called:	
A. quittor	84. What is the name of the hormone secreted by the
B. spavin	pituitary gland which stimulates the
C. corn	adrenals to secrete corticosteroids?
D. gravel	A. TSH
	B. adrenaline
77. Cross-firing is when:	C. GH
A. the forefoot on one side strikes the	D. ACTH
other forefoot	
 B. the hindfoot on one side strikes the other hindfoot 	85. On what chromosome does the gene for hemophilia ride?
C. the hindfoot on one side strikes the	A. XY chromosome
forefoot on the same side	B. X chromosome
D. the hindfoot on one side strikes the	C. Y chromosome
diagonal forefoot	D. chromosome 23
78. Trypsin, chymotrypsin and carboxypeptidase are	86. The characterizes the proximal and distal
enzymes that digest:	ends of long bones.
A. carbohydrates	A. endosteum
B. lipids	B. diaphysis
C. protein	C. epiphysis
D. minerals	D. periosteum
79. Microbes in the hindgut ferment carbohydrates and	2. periosteani
the end products are:	
A. volatile fatty acids	
B. amino acids	
C. PSGAGs	

D. glycosaminoglycans

A. second metacarpal	present is called:
B. third metacarpal	A. atopia
C. fourth metacarpal	B. alopecia
D. third metatarsal	C. scaling off
	D. rain rot
88. The coffin bone is also known as the	
A. middle phalanx	96. The word "bactericidal" means:
B. first phalanx	A. able to kill bacteria
C. distal sesamoid	B. able to stop the growth of bacteria
D. third phalanx	C. able to multiply bacteria
	D. able to identify bacteria
89. How are horses infected with strongyloides?	
A. mare's milk	97. The word "cachexia" means:
B. grass	A. lack of appetite
C. feces	B. obesity
D. contaminated water	C. lame
	D. wasting and malnutrition
90. Name the condition found in growing foals whose	-
joint cartilage does not properly differentiate.	98. The poison found in blister beetles is called:
A. osteochondrosis dissecans (OCD)	A. gossypol
B. splints	B. tannin
C. osteitis	C. cantharidin
D. ting bone	D. lanthanum
91. What is the name of the Australian wild horse?	99. A fatal genetic disease that affects Arabian foals and
A. bambi	impedes the formation of their own antibodies:
B. brumby	A. RAO
C. australian mustangs	B. SCID
D. aborigines	C. HYPP
	D. OCD
92. This is a warm season grass:	
A. bluegrass	100. These parasites can cause summer sores:
B. fescue	A. strongyles
C. bermudagrass	B. ascarids
D. timothy	C. habronema
	D. anaplocephala
93. The condyle of the humerus, proximal end of the	
radius and trochlear notch of the ulna all make up the	
joint.	
A. antebrachiocarpal	
B. radioulnar	
C. elbow	

95. A lack of hair in areas where hair should be normally

87. The cannon bone is also known as the_____

D. shoulder

production by the adrenal glands:

94. This disease is caused by insufficient corticosteroid

A. Cushing's diseaseB. Chrone's diseaseC. Addison's diseaseD. Abu'urqub disease

=:/===			
	ns that can be substituted for any of the		is unable to get in foal
first 100.			has never been bred
- 1 1 .			has aborted recently
. The cowboy in steer wrestling that rides on the opposite side of the steer that is being wrestled is		D.	was not bred during the last season
called:		. A bay horse with 2 cream dilution genes will be:	
	bulldog	•	cremello
	hazer	В.	
C.			buckskin
	heeler		perlino
. The offspring	of a female donkey bred to a male horse	. The metacarr	oophalangeal joint is also known as the:
is called:	or a remain define, sied to a male horse	-	pastern joint
	mule		coffin joint
	jack		fetlock joint
	jenny		cubital joint
	hinny	D.	Cubital John
Σ.	,	. are sw	ellings of the palmar recess of the fetlock
. A hog's back	is:		ile, due to an excessive amount of
_	a type of jump	•	uid produced by the synovial membrane
	a type of rope	of the fetlo	· · · · · · · · · · · · · · · · · · ·
	a type of saddle		ergots
	a type of saddle pad		bone spavins
11.	a type of saddie pad		capped hocks
An abnormal	y long hair coat is called:		wind puffs
		D.	willa paris
	shaggy	ic a tor	m for muscle inflammation:
В.	pituitarysm		
C.			endosytis
D.	alopecism		myositis
			arthritis
	nt used to determine the angle of the	D.	myelin
	o the ground is:		
A.	hoof pick		a term for the movement of a limb
В.		the bo	•
C.	0 - 0 -	A.	away from
D.	hoof nipper	В.	3 3 3
		C.	to the left of
. Hyperkalemia	a is:	D.	towards
A.	high levels of calcium in the blood		
B.	high levels of potassium in the blood	. The longest m	nuscle on the horse is called:
C.	high levels of sodium in the blood	A.	latissimus
D.	high levels of chlorine in the blood	B.	omotransversarius
		C.	longissimus
. The area in th	ne chest cavity that contains the heart,	D.	sternomandibularis
the trachea an	d the esophagus is called:		
	mediastinum	. Thickening ca	used by inflammation of a flexor tendon
В.	pleura	is commor	-
C.	peritoneum		st frequently in the superficial digital
D.	·	flexor tend	
2.			splint
			curb
			bog spavin
. A maiden ma	re is one that:		bowed tendon
		D.	NO TY CO LCITACII

.____ refers to the procedure of cutting a palmar or plantar digital nerve to relieve pain.

- A. Sweeney
- B. Blocking
- C. Nerving
- D. Desmotomy