# One-On-One

1. C1	Q. What is the name for the famous Thoroughbred horse that was referred to as the original "Big Red"?	
	A. Man-O-War	
	S. Evans p. 22	200/2
2. C2	Q. What slang term refer horse after a race or world	s to a racing stable employee who walks a hot cout?
	A. Hot walker	
	S. DET p. 144	1070/3
3. C3	Q. What term refers to the	e right side of the horse?
	A. Off side or far side	
	S. DET p. 194	400/2
4. C4	Q. Which gait is commo	nly referred to as the "plantation gait"?
	A. Running walk	
	S. Evans p. 178	640/2

5. C1	Q. Healthy norses usually have what body condition score?	
	A. 4 to 6 (accept anythin	g within that range)
	S. HIH 780-1	800/2
6. C2	Q. What type of equipme and a figure eight noseba	ent is described as a cross between a cavesson and?
	A. Flash noseband	
	S. DET p. 109	1000/3
7. C3		preeding a donkey and a stallion?
	A. Hinny	
	S. Griffiths p. 22	500/2
8. C4	Q. What current breed w	as formerly known as the "Palouse horse"?
	A. Appaloosa	
	S. HIH 152B-1	200/2

9. C1	Q. In general what doe	s the prefix "hepato" indicate?
	A. Condition related to	the liver
	S. DET p. 138	430/3
10. C2	Q. What is the common as dominance hierarchy	n term for the behavior referred to y?
	A. Pecking order	
	S. Evans p. 677	910/2
11. C3	_	en processed by rolling the kernels between ld be described as what type of processing
	A. Crimped or crimpin	g
	S. Lewis p. 386	790/2
12. C4	Q. What type of knot f passes through to form	forms the eye of the lariat that the rope a loop?
	A. Honda	
	S. DET p. 141	1000/3

**End One-On-One** 

#### **Begin Open Questions**

- 13. Q. What type of Western saddle is being described? It **usually** has **no** horn; its most notable feature is the high "thigh rolls" located near the front of the saddle and it is often used for trail riding.
  - A. Australian saddle
  - S. YLM BEG 108-2L

1000/2

- 14. Q. The withers, back, coupling and croup are collectively referred to by what conformation term?
  - A. Top line
  - S. YLM ADV 323-2L

600/2

#### **Toss Up – Bonus Attached**

- 15. Q. Identify **two** types of teeth that would be present at birth or erupt within the first 2 weeks of life.
  - A. Deciduous **central** incisors and premolars (must specify central incisors but do not need to include deciduous in answer)
  - S. YLM ADV 304-1L

435/3

#### **Bonus Question**

- 16. Q. Identify **two** general physiological processes in the horse that are affected by the length of daylight.
  - A. Hair coat; female reproduction (estrous cycles); male reproduction (testosterone production, sperm production)
  - S. YLM ADV 304-2L; YLM ADV 327-2L; HIH 910-8 400/3

#### **Resume Open Questions**

- 17. Q. What term refers to the feces of a foal and is described as a yellow pasty material indicating that the meconium has been passed?
  - A. Milk feces
  - S. HIH 950-2

500/3

- 18. Q. What breed of horse is described as a combination of any breeds that are not 100% hot-blood or 100% cold-blood?
  - A. Warmblood
  - S. HIH 151B-1

200/3

- 19. Q. You are an equine construction specialist and are preparing a site for a new barn. In regards to topography, what would be your recommendation for grading the soil to facilitate proper drainage and prevent erosion?
  - A. Slope of 2 to 6 percent
  - S. HIH 320-2

920/2

# $Toss\ Up-Bonus\ Attached$

- 20. Q. The ingestion of which **two** plants would result in the condition nigropallidal encephalomalacia?
  - A. Yellow Star Thistle (Centaurea solstitialis) and Russian Knapweed (Centaurea repens)
  - S. Lewis p. 318

#### **Bonus Question**

- 21. Q. A spavin is a disease of the hock joint. What are the **four** different types of spavins?
  - A. Blind spavin (occult spavin)

    Bone spavin (true spavin or jack spavin)

    Bog spavin
  - S. Lewis p. 404 810/3

#### **Resume Open Questions**

- 22. Q. What is the name of the person who looks after the horses on a trail ride?
  - A. Wrangler
  - S. DET p. 295 1070/2
- 23. Q. Which current breed of horse was previously known as a Golden Isabella?
  - A. Palomino
  - S. Evans p. 50 200/3
- 24. Q. Which internal parasite larvae cause the skin lesions known as "summer sores"?
  - A. Stomach worms (Habronema)
  - S. Griffiths p. 190 835/2

- 25. Q. Describe a four-in-hand hitch.
  - A. Two pairs with one pair in front of the other
  - S. DET p. 114

1050/2

#### **Toss Up – Bonus Attached**

- 26. Q. What are the **three** basic types of forward seat saddles?
  - A. All purpose, close contact (also accept jumping) and dressage
  - S. HIH 1100-1

1100/3

#### **Bonus Question**

27. Q. Identify **four** general reasons why a horse may refuse a feed.

A. Illness or disease Overfeeding

Insufficient water Something is wrong with the feed

Dental problems Sore tongue or mouth

Not familiar with the food When the horse is stressed

S. HIH 735-2; Lewis p. 151 700/3

#### **Resume Open Questions**

- 28. Q. Which nerve is responsible for motor control of the eyelid, ear and facial muscles?
  - A. Facial nerve
  - S. Kainer plate 78 420/3

- 29. Q. You are completing a cross country race and are approaching a brush fence with a white flag on the right side of the obstacle. What does this indicate?
  - A. You are approaching the fence from the wrong direction (the white flag should be on the left side of the obstacle)
  - S. DET p. 293

1075/2

- 30. Q. Lethal white foal syndrome is a genetic lethal associated with which **specific** color pattern?
  - A. Frame overo (must specify "frame" overo)
  - S. Griffiths p. 49

550/3

- 31. Q. What breed is a result of crossing an Arabian and American Saddlebred horse?
  - A. National Show Horse
  - S. DET p. 188

200/2

### **Last Question of the Round**

- 32. Q. In regards to evolution, which ancestor of the horse was the first to have the 2 side toes transformed into splint bones?
  - A. Pliohippus
  - S. Griffiths p. 9

# One-On-One

1. C1	Q. What term describe coat color?	es a splotch of dark color on a base	
	A. "Blood mark"		
	S. Griffiths p. 310/3	310/3	
2. C2	Q. What anatomical st gastric artery?	ructure receives oxygenated blood from the left	
	A. Stomach		
	S. Kainer plate 60	440/3	
3. C3	Q. What is the second Thoroughbreds?	race in the Triple Crown for 3 year old	
	A. Preakness		
	S. DET p. 219	1040/2	
4. C4	Q. What canine-related phrase is a slang term for a horse that is weak in its coupling and shallow in the flank?		
	A. Hound-gutted		
	S. Evans p. 152	600/2	

5. C1	Q. Winging-in is associated with what conformation defect?	
	A. Splay footed (toed-out)	
	S. Evans p. 151	600/2
6. C2	_	a viral disease that results in the formation and on the lips, hooves and teats. What is a
	A. Fluid filled sac (blister)	
	S. HIH 685-1; DET p. 282	2 860/3
7. C3	Q. Green forage is an impo	ortant source of which essential vitamin?
	A. Vitamin A	
	S. Lewis p. 46	740/2
8. C4	Q. Which type of bit may used on heavy harness or p	be used as a snaffle or a curb and is commonly blow horses?
	A. Liverpool bit	
	S. DET p. 170	1000/2

9. C1	Q. In general, what type of fencing is considered to have the longest life expectancy?	
	A. PVC (vinyl)	
	S. Evans p. 768	920/2
10. C2	Q. A thin protrusion of me of a racing plate is known	tal on the ground surface of the toe as what shoe alteration?
	A. Toe grab (toe grip)	
	S. DET p. 270	900/2
11. C3	Q. Which endocrine gland calcium levels in the blood	is responsible for the maintenance of ?
	A. Parathyroid (also accep	t thyroid due to the hormone calcitonin)
	S. DET p. 204	490/3
12. C4	Q. Who is the foundation s	sire for the American Albino?
	A. Old King	
	S. Evans p. 23	200/3

# **End One-On-One**

#### **Begin Open Questions**

- 13. Q. For what length of time are sperm viable in the reproductive tract of the mare?
  - A. 48 to 72 hours (accept anything within that range)
  - S. Evans p. 396

520/3

- 14. Q. What sensory deficit is exhibited in Belgian horses with the genetic condition aniridia?
  - A. Sight (also accept blindness although aniridia does not always cause blindness)
  - S. Evans p. 516

530/3

### **Toss Up – Bonus Attached**

- 15. Q. Identify **two** other terms for the blemish commonly referred to as mud fever.
  - A. Grease, grease heel, scratches, cracked heel
  - S. Evans p. 167; DET p. 183

#### **Bonus Question**

- 16. Q. Describe **three** methods that can be used to help establish a patent or effective airway for a foal that is not breathing after delivery.
  - A. Clear and remove fetal membranes from over nostrils
    Place foal on sternum (head outstretched with rear end elevated)
    Gently remove fluids from nostrils with fingers
    Tickle inside of nose to induce sneezing
    Suction fluids from mouth using a bulb syringe
    Rub with towels
    - S. Lewis p. 251

500/3

#### **Resume Open Questions**

- 17. Q. In general, you should graze horses when forages are 6-8 inches high. What type of forage is an exception to this rule?
  - A. Kentucky bluegrass or White clover (ladino) (can be grazed at 4 inches)
  - S. HIH 735-2

780/2

- 18. Q. You are the conditioning veterinarian judge for an endurance trail ride. What condition would these vital signs indicate? Temperature 102 degrees, heart rate 80 beats/minute and respirations 100 breaths per minute.
  - A. Inversion (respiratory rate higher than the pulse rate)
  - S. YLM BEG 115-1L

- 19. Q. A caudal epidural anesthetic would result in numbness in what areas of the horse?
  - A. Hind legs (also accept pelvic and groin regions)
  - S. DET p. 51

805/2

#### **Toss Up – Bonus Attached**

- 20. Q. Other than salt, identify **two** other minerals that would be found in trace mineralized salt.
  - A. Manganese, iron, cobalt, copper, iodine or zinc
  - S. YLM ADV 302-2L

750/3

#### **Bonus Question**

- 21. Q. What specific color would be the result of a single dilution of the following **three** colors with the dominant dun dilution gene... black, bay and chestnut?
  - A. Black grullo

Bay – zebra dun

Chestnut – Red dun (Claybank dun)

S. HIH 1040-2

550/3

#### **Resume Open Questions**

- 22. Q. What is the correct category for the behavior described as contagious or infectious behavior?
  - A. Allelomimetic
  - S. Evans p. 676

23.	Q. What type of bar shoe would be used for a horse with navicular disease?	
	A. Egg bar (do not accept	pt heart bar)
	S. HIH 515-4	900/3
24.	Q. What is the common	term for the disease Borreliosis?
	A. Lyme Disease	
	S. HIH 655-1	800/3
25.	Q. What mineral is essen	ntial for the synthesis of vitamin B12?
	A. Cobalt	
	S. Griffiths p. 137	750/3
Toss	Up – Bonus Attached	
26.	Q. Which <b>two</b> parasites	are most common in foals up to 6 months old?
	A. Roundworms (paraso Threadworms (strong	<b>-</b>
	S. HIH 950-9	835/3
Bon	us Question	
27.	Q. From distal to proxin	nal identify the <b>three</b> parts of the small intestine.
	A. Ileum, jejunum and d	luodenum
	S. Kainer plate 51	430/3

# **Resume Open Questions**

28.	Q. Plant poisoning from coras what type of sudden deat	nsumption of Milkweed would be treated th poisoning?
	A. Cardiac (cardiac glycosi	de) sudden death poisoning
	S. Lewis p. 334	770/3
29.	Q. What term refers to the tan 8-horse hitch?	team of horses behind the lead team in
	A. Point team	
	S. DET p. 215	1050/2
30.		aceration and has bright red blood What would be your initial action
	A. Direct pressure to the wo	ound
	S. HIH 440-2	860-2
31.	Q. Which farrier tool would	d be used to correct a flare?
	A. Rasp	
	S. HIH 530-2	900/2

# **Last Question of the Round**

- 32. Q. What breed was developed by the east coast Indians?
  - A. Chickasaw
  - S. DET p. 55

# One-On-One

1. C1	Q. What type of joint is an enarthrosis?	
	A. Ball and socket	
	S. Evans p. 688	410/3
2. C2	Q. What term refers to the	7 ½ or 8 minute time period in a polo match?
	A. Chukka (also accept ch	ukker)
	S. DET p. 56	1070/3
3. C3	Q. In general, what does the	ne prefix "cysto" refer to?
	A. Bladder	
	S. DET p. 76	470/3
4. C4	Q. Which type of pack sad	dle is rigged for a double cinch?
	A. Crossbuck (sawbuck)	
	S. HIH 1125-1	1000/2

5. C1	- • •	shoe would be a good choice for a horse that shoe protection until the hooves can grow out nailing a shoe in place?	
	A. Glue-on shoe		
	S. HIH 515-5	900/3	
6. C2	Q. What is the scientific name for the common horse bot?		
	A. Gastrophilus intestinalis		
	S. HIH 430-3	835/3	
7. C3	Q. Blood is pulled from the peripheral circulation to the internal vital organs in a horse with shock. How would this physiological process affect the capillary refill time?		
	A. Delayed or slower capil	lary refill	
	S. Griffiths p. 163	800/3	
8. C4	Q. Which type of melanin controls the expression of red and yellow pigment?		
	A. Pheomelanin		
	S. Griffiths p. 93	550/3	

9. C1	Q. There are 5 walk gaits in a dressage test. Which of these would have a footfall pattern where the hind feet touch the ground behind the footprints of the forefeet?		
	A. Collected walk		
	S. Evans p. 174	640/3	
10. C2	Q. Identify <b>one</b> of the breed. Horse was developed from.	s that the Tennessee Walking	
	A. Standardbred, Morgan or Narragansett pacer		
	S. Evans p. 40	200/3	
11. C3	Q. A feed containing 10% crude protein and 15% crude fiber would be appropriate for what type of horse?		
	A. Mature idle horse or hors	e with minimal work	
	S. HIH 745-5	700/2	
12. C4	Q. Thrombocytes are comm blood cells?	only referred to as what type of	
	A. Platelets		
	S. DET p. 214	440/3	

**End One-On-One** 

#### **Begin Open Questions**

- 13. Q. You do the math...How many furlongs is a 1 ½ mile race?
  - A. 12 furlongs (1 furlong equals 1/8 mile)
  - S. DET p. 116

1040/3

- 14. Q. What are you doing if you are fuzztail running?
  - A. Herding and catching wild horses
  - S. DET p. 116

1070/3

#### **Toss Up – Bonus Attached**

- 15. Q. Identify the **three** "rough stock" events at a rodeo.
  - A. Saddle bronc riding, bareback riding and bull riding
  - S. DET p. 237

1060/3

## **Bonus Question**

- 16. Q. Identify **three** of the hormones produced by the anterior pituitary.
  - A. Growth hormone (GH)

Adrenocortocotropin (ACTH)

Luteinizing hormone (LH)

Follicle stimulating hormone (FSH)

Thyrotropin (thyroid stimulating hormone, TSH)

Prolactin

S. Evans pp. 126-127

#### **Resume Open Questions**

- 17. Q. What term refers to the mounted horseman who rode on the outside of a stagecoach for protection from bandits?
  - A. Outrider
  - S. DET p. 198

100/3

- 18. Q. In general, what does the prefix "leuko" refer to?
  - A. White blood cells
  - S. DET p. 168

400/3

- 19. Q. What type of negative reinforcement would be demonstrated by a horse moving away from pressure to avoid a more severe pressure?
  - A. Avoidance
  - S. YLM ADV 320-2L

980/2

#### **Toss Up – Bonus Attached**

- 20. Q. (Two Part) In regards to maturity, what is the **term** that describes the optimal growth stage for harvesting legumes and what is the optimal growth stage for harvesting grasses?
  - A. Legumes bud or vegetative stage (just prior to when the legumes flower); Grasses early or boot stage (when grasses begin to show heads through the sheath)
  - S. Lewis p. 68

#### **Bonus Question**

- 21. Q. Premature separation of the placenta during parturition resulting in hypoxia is a known cause for neonatal maladjustment syndrome. Identify **three** terms used to describe these foal as they progress through the stages of this disorder.
  - A. Wanderer, dummy, convulsive or barker foal
  - S. HIH 950-8

500/4

#### **Resume Open Questions**

- 22. Q. The process that uses intense cold to destroy the pigments cells of the skin and that is used for identification of livestock is known as what procedure?
  - A. Freeze branding
  - S. Evans p. 809

920/3

- 23. Q. What is the **specific** location of the metatarsalphalangeal joint?
  - A. Hind fetlock joint (must specify hind for correct answer) (may also accept hind ankle or hind ankle joint)
  - S. Evans p. 689

410/3

- 24. Q. When looking at the feed tag for the concentrate you are currently feeding you notice the abbreviation GRAS. What does GRAS indicate?
  - A. Generally Recognized as Safe (safe for animal consumption)
  - S. Lewis p. 391

- 25. Q. During the past 6 months horses across the United States were more likely to ingest poisonous plants due to what predominant weather condition?
  - A. Drought conditions
  - S. Lewis p. 301

770/3

#### Toss Up – Bonus Attached

- 26. Q. (Two Part) What is the primary function of FSH in the mare and what is the primary function in the stallion?
  - A. Mare stimulates growth of follicles in the ovaries Stallion – stimulates spermatogenesis (sperm production) in the testes
  - S. Lewis p. 390

490/3

### **Bonus Question**

- 27. Q. Stainless steel is the most common material bits are made from. Identify **four** other materials bits are made from.
  - A. German silver, solid nickel (or Never Rust), copper, aluminum, rubber, vulcanite or happy mouth
  - S. HIH 1100-10

1000/3

### **Resume Open Questions**

- 28. Q. What is the main physiological function of erythrocytes?
  - A. Transport oxygen in the blood
  - S. HIH 830-1

29.	Q. What is the only draft horse breed recognized as originatin in the United States?	
	A. American Cream	
	S. HIH 155B-1	200/3
30.	•	alls, the bales of hay should be <b>at least</b> alls to allow hot, moist air to escape?
	A. At least 12 inches	
	S. HIH 320-9	920/3
31. Q. What is the common term for the external parasite tabanids species?		m for the external parasite of the
	A. Horse fly	
	S. HIH 415-2	835/3
Last	Question of the Round	
32.	Q. In general, in regards to	the horse, what designates a fall?
	A. When both the shoulder side touch the ground	and quarter (hip area) on the same

S. DET p. 103

# One-On-One

1. C1 Q. What color dilution is often referred to as type B albino		ten referred to as type B albino?
	A. Perlino	
	S. DET p.209	300/3
2. C2	Q. Touching the saddle with a free hand is referred to by the slang term "pulling leather" and is a disqualification in what rodeo event?	
	A. Saddle bronc riding	
	S. DET p. 222	1060/3
3. C3	A. Distaff side (also accept dam side)	
	S. DET p. 82	220/3
4. C4	Q. What type of sudden death poisoning would be the result of ingestion of water hemlock?	
	A. Alkaloid sudden death	
	S. Lewis p. 334	770/3

5. C1	of the auditory tube?		
	A. Guttural pouch		
	S. Kainer plate 46	400/3	
6. C2	Q. What is the difference between	a roached mane and a hogged mane?	
	A. Hogged mane is clipped to a length of no more than 3 inches; Roached mane is clipped close to the skin (less than 3 inches)		
	S. DET p. 141, 235	950/3	
7. C3	2. C3 Q. When fox hunting, what does the cry holloa indicate?		
	A. The fox has been sighted		
	S. DET p. 141	1080/3	
8. C4	Q. In general, what does the suffix "itis" indicate?		
	A. Inflammation		
	S. DET p. 67, 118, 138 (multiple	e other pages) 400/3	

9. C1	Q. What is unique in the horse in regards to respiratory frequency and stride frequency, especially at the gallop?		
	A. 1:1 ratio (respiratory rate equals number of strides)		
	S. YLM ADV 325-2L	980/3	
10. C2	Q. What <b>specific</b> term refers to the prophylactic surgical procedure tha would be used for a pregnant broodmare with pneumovagina?		
	A. Caslick's		
	S. YLM INT 230-1L	510/3	
11. C3	Q. What is the diploid number of chromosomes for a donkey?		
	A. 62 diploid chromosomes		
	S. Griffiths p. 20	550/3	
12. C4	Q. What phase of the stride occurs when all 4 feet are off the ground?		
	A. Period of suspension		
	S. Griffiths p. 74	640/3	

**End One-On-One** 

## **Begin Open Questions**

- 13. Q. What term refers to bursts of white on a gray coat color?
  - A. Rosettes
  - S. Griffiths p. 45

300/4

- 14. Q. What would be the general location of the manubrium and xiphoid process?
  - A. Sternum
  - S. Kainer plate 8

410/3

#### **Toss Up – Bonus Attached**

- 15. Q. Identify **two specific** types of parasites that would cause pruritis ani.
  - A. Pinworms (oxyuris equi)

    Tail mange mite (also accept mange mite) (chorioptes equi)

    Biting louse (must specify **biting** louse) (damalinia equi)
  - S. Evans p. 641

835/4

#### **Bonus Question**

- 16. Q. Identify **three** of the four breeds that the Paso Fino breed was developed from.
  - A. Andalusian, Barb, Spanish Jennet and Friesian
  - S. Evans p. 43

#### **Resume Open Questions**

17. Q. A broodmare whose foal is in a "flexed capri" position would need what problem corrected to enable normal vaginal delivery?

A. Knees are bent, so the foal would need repositioned and the front legs straightened into normal position for delivery

S. Evans p. 424

500/3

18. Q. What type of electric fence is considered to be safer because it is more visible and less injurious to the horse?

A. Electric tape

S. Evans p. 767

970/3

19. Q. What is the term for the Australian game on horseback that is based on polo and lacrosse?

A. Polo crosse

S. DET p. 217

1070/4

#### **Toss Up – Bonus Attached**

20. Q. Identify the **three** general types of clinchers or clinching tongs.

A. Saddle horse, gooseneck and draft horse

S. YLM BEG 116-2L

#### **Bonus Question**

21. Q. Identify **six** of the macro-minerals required by the horse.

A. Calcium Sodium Phosphorus Chloride

Potassium

Magnesium

Sulfur

S. Griffiths p. 131 750/3

#### **Resume Open Questions**

22. Q. In general, what does the prefix "desmo" indicate?

A. Ligament

S. DET p. 79

410/4

23. Q. What type of bit is non-allergic?

A. Happy Mouth

S. HIH 1100-10

1000/3

24. Q. There are 2 viruses that cause Rhinopneumonitis. Which of these can result in respiratory and neurologic symptoms as well as abortion in pregnant mares?

A. EHV-1 (Equine Herpes Virus 1)

S. HIH 610-2

- 25. Q. You do the math... If the cardiac output is 35 liters and the heart rate is 35 beats per minute... What is the stroke volume?
  - A. 1 liter
  - S. Evans p. 111

440/3

#### **Toss Up – Bonus Attached**

- 26. Q. In general, for successful ejaculation of the stallion, an artificial vagina must provide what **two** physical characteristics?
  - A. Must provide warmth and pressure
  - S. Evans p. 378

500/4

# **Bonus Question**

- 27. Q. Your job at a breeding farm is management of the pregnant broodmares. Identify four management practices you follow in regards to **herd management** to prevent an abortion storm.
  - A. Isolate all new arrivals for at least 21 days

Keep pregnant mares separated from weanlings and other horses

Do not mix maiden mares with older mares

Divide pregnant mares into small groups by the stage of pregnancy

Keep mares in group until all in group have foaled

If pregnant mares are moved off the farm and later return – do not reintroduce them into the original group

If a foster mare is introduced do not place her in a group with other mares Maintain all pregnant mares on vaccination program

S. HIH 610-3

# **Resume Open Questions**

S. Evans p. 521

28.	Q. What hormone is primarily responsible for diestrus?		
	A. Progesterone		
	S. Kainer plate 71	510/3	
29.	9. Q. What is the common term for the tuber coxae?		
	A. Hip		
	S. Evans p. 687	410/3	
30.	Q. Sidebones are a condition associated with ossification of the collateral (or lateral) cartilages. What term refers to the condition that occurs when the collateral cartilages become infected?		
	A. Quittor		
	S. HIH 455-5	810/4	
31.	Q. Which contains more cr	ude fiber – complete feeds or long stem hay?	
	A. Long stem hay		
	S. HIH 741-1	780/3	
Last Question of the Round			
32.	Q. Identify <b>two</b> different <b>m</b> commonly referred to as mo	edical terms for the condition oon blindness?	
	A. Periodic opthalmia, recu	rrent uveitis	

#### One-On-One

1. C1 Q. At what age are all of the permanent incisors in place? A. 4 ½ years S. Kainer plate 453/3 Q. What **two** criteria determine the winner of an "against the clock" 2. C2 jumping competition? A. The rider with the fastest time and the fewest faults S. DET p. 4 1075/3 Q. What breed is being described? Dun color with a dorsal 3. C3 stripe and black mane and tail. Breed that has survived since the Ice Age and originated in Mongolia. A. Asiatic Wild Horse (also accept Mongolian Wild Horse and Przewalski's Horse) S. DET p. 16 200/4 Q. Would the corium be considered to be part of the dermis or 4. C4 epidermis? A. Dermis S. Kainer plate 25 415/3

5. C1	Q. The breeding of a <b>sire</b> with a <b>daughter</b> would be an examp what <b>specific</b> type of breeding?  A. Inbreeding (also accept close breeding) (do not accept line)	
	S. HIH 1080-1	500/3
6. C2 Q. What <b>two</b> breeds were combined in the development of A. Andalusian and Quarter Horse		combined in the development of the Azteca?
		Horse
	S. DET p. 19	200/3
7. C3	. C3 Q. In general, what does the prefix "arthro" describe?	
	A. Joints	
	S. DET p. 15	410/3
8. C4	Q. Would a feed with a 2% digestible energy?	or 5% crude fiber have a higher
	A. Feed with 2% crude fibe	er
	S. HIH 745-3	710/4

9. C1 Q. What does the abbreviation PSSM indicate?
A. Polysaccharide Storage Myopathy
S. HIH 460-4 800/4

10. C2 Q. You recently purchased a new stallion for your breeding program. The previous owner stated that the stallion had a respiratory illness accompanied by a high fever 30 days ago. What impact would this have on the stallion's fertility?

A. Would expect a lower sperm count for 65 days after the illness

520/3

S. HIH 920-4

11. C3 Q. A "red bag delivery" is most commonly observed in mares that have been grazed on what type of pasture?

A. Fescue

S. HIH 940-4

780/3

12. C4 Q. You are the veterinarian on call and are examining a horse that sustained a laceration to the front lower leg sometime in the past 12 hours. There is no active bleeding from the wound. What would be the main reason to **not** suture this wound?

A. Suturing may increase the risk of infection due to elapsed time since injury (without the wound being properly cleaned)

S. HIH 440-3 800/3

#### **End One-On-One**

#### **Begin Open Questions**

- 13. Q. What is the purpose of a prophylactic medication?
  - A. To prevent an illness or disease
  - S. DET p. 221

805/3

- 14. Q. What is the definitive host for Equine Protozoal Myeloencephalitis?
  - A. Opossum
  - S. HIH 670-1

800/3

#### **Toss Up – Bonus Attached**

- 15. Q. Which **three** types of western saddles would have a horn that is tall?
  - A. Barrel Racing, Roping and Cutting
  - S. HIH 1100-5

1000/3

### **Bonus Question**

- 16. Q. The permanent upper and lower teeth are located in what **three** bones?
  - A. Maxilla, mandible and incisive bone
  - S. Kainer plate 41

# **Resume Open Questions**

S. Kainer plate51

17.	. Q. Based on research studies for initial re-feeding of the starved ho the best approach is feeding what?			
	A. High quality alfalfa hay	A. High quality alfalfa hay (frequent small amounts)		
	S. HIH 785-3	700/4		
18.	18. Q. What is the slang term for the main office of a rodeo where ex and grievances are aired?			
	A. Crying room			
	S. DET p. 74	1060/3		
19.	9. Q. What is the main purpose of the close contact saddle?			
	A. Jumping			
	S. HIH 1100-1	1000/2		
Toss	Coss Up – Bonus Attached			
20.	Q. Which <b>two</b> glands empty into the small intestine at the major duodenal papilla?			
A. Liver (bile duct) and pancreas (pancreatic duct)		ncreas (pancreatic duct)		

#### **Bonus Question**

- 21. Q. Identify **five** advantages of maintaining horses on a well-managed pasture.
  - A. Reduces required supplemental deed (hay and/or grain)

Recycles nutrients from manure

Exercise

Reduces frequency of respiratory disease

Maintains gastrointestinal health

Aesthetically pleasing

Increases grazing capacity

Enhances water quality

Socialization

Decreases erosion

S. HIH 740-1

970/3

#### **Resume Open Questions**

- 22. Q. The orbatid mite is the intermediate host for which internal parasite?
  - A. Tapeworm
  - S. HIH 430-4

835/3

- 23. Q. What is the name for the radiopaque dye material given to a horse by mouth to outline the digestive tract on radiographs?
  - A. Barium
  - S. DET p. 23

- 24. Q. Horses with recurrence of urinary calculi may benefit from feeding a diet that has less of what specific mineral?
  - A. Calcium
  - S. Lewis p. 297

750/3

- 25. Q. What type of striding leg interference occurs when the toe of the forefoot strikes the hind leg at the pastern or fetlock?
  - A. Speedy cutting
  - S. Evans p. 179

640/3

#### Toss Up – Bonus Attached

- 26. Q. Which **two** criteria used to evaluate semen are **not** affected by the length of daylight or season of the year?
  - A. Morphology and motility
  - S. Evans p. 368

520/3

#### **Bonus Question**

- 27. Q. The genetic conditions atresia coli and lethal white foal syndrome are both fatal conditions due to an inability to eliminate waste products from the intestines. In regards to anatomy, how do each of these conditions differ as to why the intestine does not function normally?
  - A. Atresia coli the lumen of the colon is not continuous and is described as severed

Lethal white foal syndrome – intestine does not empty correctly due to absence of nerves responsible for peristalsis in the intestines

S. DET p. 17; HIH 1060-6

# **Resume Open Questions**

28.	Q. What is the slang ter is semi-comatose?	m for a foal that is born with septicemia and	
	A. Sleeper or sleeper fo	al	
	S. Evans p. 429	840/3	
29.	Q. In what anatomical sand matured?	structure of the stallion are sperm stored	
	A. Epididymis		
	S. DET p. 97	480/3	
30.	Q. What is a jerk line?		
	A. Single rein fastened to the brake handle of a carriage and run through the driver's hand to the bit of the lead horse		
	S. DET p. 157	1050/4	
31.		estimated age of a horse when the Galvayne's earing surface of the corner upper incisor?	
	A. 20 years		
	S. HIH 240-4	435/3	

## **Last Question of the Round**

- 32. Q. Which external parasite usually feeds on the inside ear folds and may cause a horse to be head shy?
  - A. Black flies ("Buffalo gnats")
  - S. HIH 415-2 835/3

# One-On-One

1. C1	Q. What is the common name for the medication flunixin meglumine?		
	A. Banamine		
	S. HIH 640-2	805/4	
2. C2		, why is the myometrium thicker around round the other chambers of the heart?	
		eft ventricle is thicker and stronger because it gh force to pump blood throughout the body	
	S. Evans p. 111	440/3	
3. C3	_	a Thoroughbred farm and will be on to a 16.3 hand mare. What is your e physical size difference?	
	or stand the stud on a hill or	placed in a shallow depression r raised area (only need to give one answer) or embryo transfer as these are hbreds)	
	S. Evans p. 415	500/3	
4. C4	Q. What term refers to suppan open wound?	porting leg interference that results in	
	A. Striking		
	S. Evans p. 179	640/3	

5. C1	Q. What is the primary symptom of a horse that ingests wild onions		
	A. Anemia		
	S. Lewis p. 331	770/3	
6. C2	Q. What type of grass provides the highest yield of hay-crop forage each year in the southern United States?		
	A. Bermuda grass		
	S. Lewis p. 109	780/4	
7. C3	Q. How quickly a horse's heart rate decreases and returns to their resting heart rate is an indication of what?		
	A. Fitness of the horse (accept	t any answer that indicates this)	
	S. Lewis p. 206	980/3	
8. C4	Q. What is the common term	for prognathia?	
	A. Monkey mouth (sow mouth	n)	
	S. Lewis p. 396	600/4	

9. C1	Q. What type of forage would be most appropriate for a horse with renal failure?		
	A. Grass forage (lower in prot	ein, phosphorus and calcium)	
	S. Lewis p. 296	700/3	
10. C2	Q. What physical characteristic is described by the term micropthalmia?		
	A. Small eye		
	S. Lewis p. 398	425/4	
11. C3	Q. Evaluating a feed for aflatoxin-producing mold can be accomplished using ultraviolet light from what type of lamp?		
	A. Woods lamp		
	S. Lewis p. 408	790/4	
12. C4	Q. What general term refers to a horse that eats unnatural substances such as wood, hair or dirt?		
	A. Pica		
	S. Lewis p. 400	910/3	

**End One-On-One** 

#### **Begin Open Questions**

- 13. Q. What glandular organ is located near the stomach and serves as a reservoir for red blood cells?
  - A. Spleen
  - S. Lewis p. 404

400/3

- 14. Q. What is the recommended width of a gate that would be wide enough for hay equipment?
  - A. 16 feet
  - S. Evans p. 771

920/3

#### **Toss Up – Bonus Attached**

- 15. Q. Identify **two** problems that may occur when hay is baled with a moisture content greater than 20 percent.
  - A. Mold and heat (also spontaneous combustion)
  - S. Lewis p. 65

780/3

#### **Bonus Question**

- 16. Q. Jugging is the practice of administering a large quantity of a concentrated solution into the jugular vein. Identify **three general types** of nutrients or substances that would be included in this solution.
  - A. Amino acids, electrolytes, vitamins, glucose
  - S. DET p. 158

#### **Resume Open Questions**

17. Q. You are spending the day with a farrier. The farrier has 4 shoes that look identical set aside for the horse he is shoeing. He would like you to hand him a front shoe. How will you know which is a front shoe?

A. The front shoe would be more round (also accept wider at the heel)

S. Evans p. 150

900/3

18. Q. In general, what does the suffix "emia" describe?

A. In the blood

S. Lewis p. 407

400/3

19. Q. What are doing if you are "drenching" a horse?

A. Pouring a liquid medication down the throat from a bottle

S. DET p. 85

805/3

#### **Toss Up – Bonus Attached**

20. Q. Identify **two** of the organs that the celiac artery and its arterial branches supply with oxygenated blood.

A. Spleen, stomach and liver

S. Kainer plate 60

#### **Bonus Question**

- 21. Q. In regards to the **stallion**, identify **four** advantages for artificial insemination versus live cover breeding.
  - A. Prevent spread of venereal disease
    Able to breed injured/crippled stallions that are unable to mount a mare
    Eliminates injury to stallion from nervous, aggressive or shy mares
    Able to breed more mares per season
    Able to impregnate a mare located far away by shipping semen
  - S. Evans p. 376 500/4

#### **Resume Open Questions**

- 22. Q. You do the math... You are judging a reining class and have indicated a total maneuver score of **minus 1** and a total penalty score of **minus 3** ½. What would be the **final score** for this competitor?
  - A. Score of 65 ½ points
  - S. HIH 183D-1 1010/3
- 23. Q. You are the on call veterinarian evaluating a horse with the following symptoms...Rapid and labored breathing, incoordination, dilated pupils, muscle tremors and dark cherry red mucous membranes. These symptoms would indicate what type of plant poisoning?
  - A. Cyanide poisoning
  - S. Lewis p. 336 770/4

- 24. Q. The most common cause of spontaneous abortion is placental or uterine infections. Prior to the current widespread use of ultrasound, what accounted for about 25% of abortions and was considered to be the second most common cause?
  - A. Twinning
  - S. Lewis p. 240

500/4

- 25. Q. What breed is being described... Noted for its speed and jumping ability although it can be stubborn. Able to withstand the severe weather in its country of origin which is Russia.
  - A. Akhal-Teke
  - S. DET p. 6

200/4

### Toss Up – Bonus Attached

- 26. Q. In regards to biosecurity identify three ways to diminish the possibility of transferring infective agents with your boots.
  - A. Disinfect boots using a spray disinfectant

Disposable boots or boot covers

Disinfect boots with a boot dip

Change boots (between farms, between clean and dirty areas, etc)

S. Griffiths p. 194

#### **Bonus Question**

- 27. Q. What color would be the result of the silver dapple gene on the following **three** colors…black, bay and chestnut?
  - A. Black Blue silver or silver dapple
     Bay Red silver
     Chestnut Chestnut (silver gene only affects black areas)
  - S. HIH 1040-2 300/4

#### **Resume Open Questions**

- 28. Q. What is the scientific name for the stable fly?
  - A. Stomxys calcitrans
  - S. HIH 415-1 835/4
- 29. Q. When driving a horse and turning left...Which rein is the "bearing rein"?
  - A. Right rein (rein opposite the direction)
  - S. DET p. 25 1000/3
- 30. Q. In foxhunting, who hunts the hounds and is in charge of the kennels?
  - A. Huntsman
  - S. DET p. 145 1080/3

- 31. Q. In general, what does the suffix "oma" describe?
  - A. Tumor (also accept cancer or neoplasm)
  - S. DET p. 178, 190,240

400/4

#### **Last Question of the Round**

- 32. Q. The mating of imported draft stallions with native mares in Southern Pennsylvania produced what breed that eventually disappeared and never had a breed registry.
  - A. Conestoga horse
  - S. Evans p. 9

# One-On-One

1. C1	Q. What is the correct term for the medication referred to by the slang term "Ace"?		
	A. Acetyl promazine (ace	promazine	e)
	S. DET p. 3	805/4	
2. C2	Q. The Tennessee Walking Horse was crossed with what other breed to develop the American Walking Pony?		
	A. Welsh Pony		
	S. Evans p. 66	200/4	
3. C3	-	-	onstant outward pressure on the bars nat conformation defect of the hoof?
	A. Contracted heels		
	S. DET p. 53; Evans p. 7.	50	900/3
4. C4	- 0		g is preferred in all breeds ition, or 2.) long, clean, well-defined
	A. Long, clean and well-o	lefined	
	S. HIH 220-8	600/3	

5. C1	Q. What anatomic structure is responsible for increasing absorption in the small intestine and is described as tiny, finger-like projections?	
	A. Villi	
	S. DET p. 283	430/4
6. C2	Q. In what <b>specific</b> area of the fetus develop in a normal hor	ne uterus does the conceptus attach and the rse pregnancy?
	A. Uterine horn	
	S. Evans p. 340, 347	510/3
7. C3	Q. The alkaloid slaframine was grazing red clover affected w	yould result in what symptom in horses with black patch?
	A. Excessive salivation (slob	bers)
	S. Lewis p. 108	780/4
8. C4	Q. Who is the foundation sire	e for the American Saddlebred Horse?
	A. Denmark	
	S. Evans p. 38	200/3

9. C1 Q. What is the primary benefit of extruded feed?		efit of extruded feed?
	A. Improved digestibility	
	S. HIH 745-1	790/3
10. C2	Q. Ovulation will usually of the discontinuation of treat	occur within how many days after ment with Regumate?
	A. Approximately 12 days	
	S. HIH 930-4	805/4
11. C3	Q. Would the parasympath be stimulated with the "figl	etic or sympathetic nervous system nt or flight" instinct?
	A. Sympathetic	
	S. Kainer plate 80	420/4
12. C4	Q. What is the correct term	for a full turn on the haunches in dressage?
	A. Volte	
	S. DET p. 284	1090/4

**End One-On-One** 

#### **Begin Open Questions**

- 13. Q. What are the **two** functions of the turbinate bones?
  - A. Warm, hydrate and filter inspired air (only need to give two answers)
  - S. DET p. 276

410/4

- 14. Q. Which pony breed is referred to as the "living fossil"?
  - A. Exmoor
  - S. HIH 157B-1

200/4

#### Toss Up – Bonus Attached

- 15. Q. (Two Part) The diaphragm is the muscle that separates the thoracic and abdominal cavities. What serous membrane covers the abdominal surface of the diaphragm and what serous membrane covers the thoracic surface?
  - A. Abdominal peritoneum Thoracic pleura
  - S. Kainer plate 56

400/4

## **Bonus Question**

- 16. Q. What are the **four** methods used to breed mares?
  - A. Pasture breeding, hand breeding, artificial insemination and embryo transfer
  - S. Lewis p. 237

#### **Resume Open Questions**

17.	Q. Which <b>two</b> types of white spotting are described as rising up
	from the underline of the horse?

- A. Splashed white and sabino
- S. Evans pp. 492-493

300/4

- 18. Q. What type of knot is used on the end of a rope to keep it from unraveling?
  - A. Crown knot
  - S. DET p. 74

1000/3

- 19. Q. You do the math... You are feeding a weanling that weighs approximately **400 pounds**. If you are feeding **twice a day** and need to feed a **total of 1%** of the body...How many pounds would you feed for the **morning** feeding?
  - A. 2 pounds
  - S. HIH 765-2

700/4

#### **Toss Up – Bonus Attached**

- 20. Q. Identify the three gaits of the Paso Fino beginning with the speed that is the fastest and ending with the speed which is slower and more collected.
  - A. Paso largo, paso corto and paso fino
  - S. Evans p. 178

#### **Bonus Question**

- 21. Q. Identify **three** breeds that originated in the United States and were developed from crossing other breeds with Canadian pacers.
  - A. Standardbred, American Saddlebred and Tennessee Walking Horse
  - S. Evans p. 28, 38, 40

200/4

#### **Resume Open Questions**

- 22. Q. What is the anatomical name for a natural passageway or opening in the body that blood vessels and nerves pass through?
  - A. Foramen (also accept foramina)
  - S. DET p. 111; Kainer plate 41

410/3

- 23. Q. Sprinting and galloping can produce an oxygen deficit within skeletal muscle and result in what type of metabolism?
  - A. Anaerobic
  - S. HIH 895-1

980/3

- 24. Q. What is the correct medical terminology for giving birth?
  - A. Parturition
  - S. DET p. 205

- 25. Q. For what specific equine competition would you have herd holders?
  - A. Cutting
  - S. DET p. 139

1070/4

#### **Toss Up – Bonus Attached**

- 26. Q. Which **two** breeds were crossed to develop the Americana?
  - A. Shetland and Hackney Pony
  - S. Evans p. 66

200/4

#### **Bonus Question**

- 27. Q. Identify **two** reasons why additional protein is not a desirable source of energy in the athletic horse.
  - A. Produces excess body heat
    Increased water loss (due to increased sweating)
    Increased electrolyte deficit
    More expensive
  - S. Lewis p. 196

760/4

## **Resume Open Questions**

- 28. Q. English stagecoaches often were accompanied by a cockhorse that was ridden behind the coach. What was the purpose of the cockhorse?
  - A. Hitched in front of the team when going up steep hills or heavy going
  - S. DET p. 60

29.	Q. The heart, trachea and esophagus are contained in what <b>specific</b> area of the chest cavity?		
	A. Mediastinum		
	S. DET p. 178	400/4	
30.	Q. Cremello is a double dilution of what color?		
	A. Chestnut		
	S. HIH 1040-2	650/3	
31.	Q. Which farrier tool is used to cut hot metal?		
	A. Hardy		
	S. Evans p. 727	900/3	

# **Last Question of the Round**

- 32. Q. What breed's characteristics include a rat tail?
  - A. Appaloosa
  - S. Evans p. 32 200/3

# One-On-One

1. C1	Q. What is the anatomical term for the hind cannon bone?		
	A. Large meta <b>tarsal</b> or thir or large meta <b>carpal</b> )	d metatarsal (do not accept third	
	S. Kainer plate 12	410/3	
2. C2	Q. What does the term open	n bridle describe?	
	A. A bridle without blinder	s or blinkers	
	S. DET p.196	1000/3	
3. C3	-	ovulation would the embryo be e for nonsurgical embryo transfer?	
	A. 6-8 days (accept anythin	g within this range)	
	S. Evans p. 411	500/4	
4. C4	-	the traditional grooming presentation n a "harness" versus a "Hackney" class?	
	A. Ponies are shown with a long tail in a harness class	cob-tail in Hackney classes and a	
	S. Evans p. 63	200/3	

5. C1	Q. What is the common term for Enterotoxemia?		
	A. Overeating disease		
	S. Evans p. 305	840/4	
6. C2	Q. For fire safety, a barn used for hay storage should be located at least how far from other buildings?		
	A. At least 100 feet		
	S. Evans p. 781	920/3	
7. C3	Q. What type of parasite is only a problem for horses that are being grazed with ruminants?		
	A. Hairworms (Trichostr	rongylus axei)	
	S. Lewis p. 158	835/4	
8. C4	Q. What is the country o	f origin for the New Forest Pony?	
	A. England		
	S. DET p.190	200/3	

9. C1	Q. Would front or hind plates have "jar calks"?		
	A. Front plates (are referred to as heel calks on hind plates)		
	S. Evans p. 734	900/4	
10. C2	Q. What does the slang ter	rm "owl head" describe?	
	A. A horse that is difficult to train		
	S. DET p. 199	980/4	
11. C3	Q. When using the Y-Tex Corporation system for freeze branding, the alpha character is used to identify what?		
	A. Breed of horse (or "E" if grade or unregistered horse)		
	S. Evans p. 810	920/4	
12. C4	Q. What is the <b>scientific</b> name for the type of bot fly that is associated with eggs that are black and deposited on the lips?		
	A. Gastrophilus hemorrhoidalis		
	S. Evans p. 634	835/3	

#### **End One-On-One**

#### **Begin Open Questions**

- 13. Q. Common signs of ocular disease include color changes such as redness or cloudiness, increased tearing and blepharospasm. What is blepharospasm?
  - A. Squinting or closing the eye (indicates pain)
  - S. HIH 465-2

425/4

- 14. Q. You would collect prize money if the horses you bet on placed first and second in the order you predicted if you placed what type of wager?
  - A. Exacta
  - S. DET p. 100

1040/3

#### Toss Up - Bonus Attached

- 15. Q. What is the difference between hyperplasia and hypertrophy?
  - A. Hyperplasia is an increase in the **number** of cells Hypertrophy is an increase in the **size** of the cells
  - S. DET pp. 146-147

400/4

## **Bonus Question**

- 16. Q. Give **four** observations that would indicate that a foal with diarrhea would require medical attention.
  - A. Large amount of diarrhea

Diarrhea contains blood

Decreased appetite

Fever

Depression/lethargy

Dehydration

Large volume of water in diarrhea

S. Lewis p. 259

#### **Resume Open Questions**

- 17. Q. What is the common term for alpha tocopherol?
  - A. Vitamin E
  - S. DET p. 7

740/4

- 18. Q. What do the initials NHSRA stand for?
  - A. National High School Rodeo Association
  - S. HIH 186D-2

230/3

- 19. Q. In general, what does the suffix "malacia" describe?
  - A. Softening
  - S. DET 56, 91, 197

400/4

## $Toss\ Up-Bonus\ Attached$

- 20. Q. Identify **two** equine diseases that are caused by protozoa.
  - A. Equine Piroplasmosis (Babesiosis)
    Equine Protozoal Myeloencephalitis (EPM)
    Giardia Infection (Giardiasis)
  - S. Griffiths p. 174

#### **Bonus Question**

Q. (Four Part) In regards to balance, the angle or slope of the shoulder will directly influence the ratio of which two other areas.How are each of these areas altered if the shoulder is longer and more sloping? How do they change if the shoulder is shorter and straighter?

A. Length of back: Length of underline

More slope = length of back is shorter

Straighter = length of back is longer

Top line of neck: Bottom line of neck

More slope = top line of neck is longer

Straighter = top line of neck is shorter

S. HIH 220-5/6 600/4

#### **Resume Open Questions**

- 22. Q. Which pony breed has adapted to harsh winter weather with the growth of a cluster of short hairs on the top of the tail that is referred to as an "ice-tail" or "snow-chute"?
  - A. Exmoor Pony
  - S. HIH 157B-2 200/4
- 23. Q. In the zoological classification, what is the order the horse would be included in?
  - A. Perissodactyla
  - S. Griffiths p. 15 100/3

24.	Q. Which bacterial disease affects foals?	is called "shaker foal syndrome" when it	
	A. Botulism		
	S. Evans p. 603	830/4	
25.	Q. What term refers to an overhanging of the top lip?		
	A. Elk lip		
	S. DET p. 600/3		
Toss	Up – Bonus Attached		
26.	26. Q. Identify <b>three</b> areas on the horse where a hackamore bit we exert pressure.		
	A. Nose, face, jaw, chin, poll, cheeks (do not accept mouth)		
	S. HIH 1100-8	1000/3	
Bonu	s Question		
27.	Q. Identify the <b>three</b> foundation sires for the Rangerbred Horse.		
	A. Max, Leopard and Linden Tree		
	S. Evans p. 58	200/4	

# **Resume Open Questions**

28.	Q. Combined Immunodeficiency Disease and Epitheliogenesis improved be classified as what type of genetic lethal?		
	A. Delayed lethal		
	S. HIH 1060-4	550/4	
29.	Q. You do the math A foal normally weighs <b>9-10%</b> of the mare's body weight. A foal that weighs <b>50 pounds</b> would indicate that it's dam weighs how much?		
	A. 450-500 pounds (accept anything within that range)		
	S. HIH 940-5	500/3	
30. Q. Praziquantel and pyrantel pamoate are both effective for the tapeworms. How does the dosage of pyrantel paomate need to when treating tapeworms?		ne dosage of pyrantel paomate need to be altered	
	A. Give twice the standard dose		
	S. HIH 430-4	835/3	
31.	Q. What term refers to the horseback"?	ne discipline described as "gymnastics on	
	A. Vaulting		
	S. HIH 185D-1	1010/3	

## **Last Question of the Round**

- 32. Q. What are the **two** types of balance to consider when trimming the hoof?
  - A. Heel to toe (front to back) and medial/lateral (side to side)
  - S. HIH 510-1

#### One-On-One

1. C1	Q. What is the correct term for the medication referred to by the abbreviation DMSO?		
	A. Dimethyl sulfox	ide	
	S. DET p. 2	805/4	
2. C2	Q. What is the common term for Lethal White Foal Syndrome?		
	A. "Megacolon"		
	S. Griffiths p. 98	550/3	
3. C3	Q. What color desc dorsal stripe?	ribes a dun with black points and a black	
	A. Coyote dun		
	S. DET p. 71	300/4	
4. C4	Q. What breed is being describedSometimes used as a pack animal; dun color with black and silver mane and tail, eel stripe and zebra markings; resembles the wild horses of the Ice Age; country of origin is Norway.		
	A. Fjord		
	S. DET p. 108	200/3	

Q. Equine supplements that contain valerian root provide 5. C1 what affect? A. Calming effect, sedative effect, anti-spasmodic effect (only need to give one answer) S. HIH 742-3 700/4 Q. What mineral imbalance results in the condition commonly referred 6. C2 to as "bob-tail disease"? A. Excess selenium (must designate excess for answer to be correct) S. Lewis p. 329 770/4 O. For an obese horse, weight loss should occur gradually over several 7. C3 months. What amount of weight loss in pounds or what change in the body condition score is recommended in **one month**? A. Approximately 50 pounds or one body condition score S. HIH 790-3 700/3 8. C4 O. What type of parasite may result in coughing, fever and nasal discharge which is commonly referred to as a "summer cold" in foals? A. Roundworms (parascaris equorum) S. Lewis p. 157 835/4

9. C1 Q. In general, what does the term viscera describe?		ne term viscera describe?
	A. Internal organs	
	S. DET p. 283	400/4
10. C2	Q. Which breed was devel and Irish Draft breeds?	loped by crossing the Thoroughbred
	A. Irish Hunter	
	S. DET p. 155	200/4
11. C3 Q. Horses that are stalled 24 hours a day are more likel in which vitamin?		24 hours a day are more likely to be deficient
	A. Vitamin D	
	S. HIH 730-1	740/3
12. C4	Q. Halitosis with an odor of garlic would be an indication of what specific mineral toxicity?	
	A. Selenium	
	S. Griffiths p. 142	770/4

**End One-On-One** 

#### **Begin Open Questions**

- 13. Q. What omega 3 fatty acid source when added to the diet has recently been identified as providing a significant improvement in sweet itch or other allergic skin conditions?
  - A. Flaxseed
  - S. HIH 742-4 700/4
- 14. Q. What ligament connects the splint bone to the cannon bone?
  - A. Interosseous ligament
  - S. DET p. 154 410/4

#### **Toss Up – Bonus Attached**

- 15. Q. Identify **two systemic** fungal diseases that affect horses.
  - A. Aspergillosis Blastomycosis Coccidiomycosis Hisoplasmosis
  - S. Griffiths p. 173 800/4

#### **Bonus Question**

- 16. Q. Identify **three** of the five classifications of donkeys according to size.
  - A. Miniature Small Standard Large Standard
    - Mammoth
  - S. HIH 156B-1 200/4

### **Resume Open Questions**

17. Q. What is considered to be the primary reservoir host for rabies in horses? A. Skunk S. HIH 680-1 820/3 Q. A mare that shows lack of interest to a stallion but is not aggressive 18. toward the stallion would be given what estrus behavioral score? A. Score of 2 S. HIH 9330-2 520/4 Q. Hay feeders should be placed at a height **no higher** than what part of the 19. horse's anatomy? A. Shoulder

### **Toss Up – Bonus Attached**

S. HIH 740-12

20. Q. Weakening of the broad ligaments can cause a downward tilting of the uterus and can predispose a mare to uterine infections and infertility. Other than injury or illness, identify **two** things that would contribute to the weakening of these ligaments

- A. Age of the mare, number of pregnancies the mare has had
- S. HIH 910-3 510/4

#### **Bonus Question**

21. Q. What is the correct name for the following **four** vitamins... Vitamin B1, B2, B6 and B12?

A. Vitamin B1 Thiamin
Vitamin B2 Riboflavin
Vitamin B6 Pyridoxine
Vitamin B12 Cobalamin

S. Griffiths pp. 126-127 740/4

### **Resume Open Questions**

22. Q. What does the slang term dog soldier describe?

A. A stallion that has been cast out from a wild herd

S. DET p. 83 910/3

23. Q. Clipping along the belly, under the neck and above the thigh is known as what type of body clip?

A. Trace clip

S. DET p. 950/3 950/3

24. Q. You do the math... Water hemlock ingestions results in sudden death in horses. Death results after ingestion of as little as **0.1 ounce** for each **100 pounds** of body weight. A horse that weighs **1000 pounds** would be fatally poisoned after consuming how many ounces of water hemlock?

A. Poisoned after ingesting only 1 ounce

S. Lewis p. 343 770/3

- 25. Q. Identify which **two** grasses are the most palatable.
  - A. Kentucky bluegrass and timothy
  - S. Lewis p. 109

780/3

#### **Toss Up – Bonus Attached**

- 26. Q. Identify **two** types of colic in regards to the position of the small intestine.
  - A. Displacement, Telescoping (intussusception) or twisting (volvulus)
  - S. HIH 435a-1

830/4

#### **Bonus Question**

- 27. Q. Identify **four** physiological and/or anatomical factors that would indicate a horse's racing performance or athletic ability.
  - A. Conformation

Oxygen intake ability (respiratory capacity)

Gait

Heart size and heart rate capacity (cardiac capacity)

Proportion/type of muscle fibers

S. Lewis pp. 220-222

400/4

### **Resume Open Questions**

- 28. Q. What part of a decker saddle is described as a heavy canvas or poly cover with a wooden bar at the bottom?
  - A. Half Breed
  - S. YLM BEG 118-1L

29.	Q. What substance is produced in the body in response to an allergen?		
	A. Histamine		
	S. DET p. 12	400/4	
30.	Q. How would a base-wide, toe-out conformation affect the break over and landing of the foot?		
	A. Would break over and land on the inside toe		
	S. Evans p. 748	900/3	
31.	Q. What function do the superior labial levator muscles provide?		
	A. Raise the upper lip		
	S. Kainer plate 43	410/4	
Last	Question of the Round		
32.	Q. In regards to the racing industry, what does the expression "buy a lot" describe?		
	A. Falling off the horse		
	S. DET p. 43	1040/3	

# **100**

1.	Q. in the zoological classification of the horse, what phylum includes the horse?
	A. Chordata
	S. Griffiths p. 15 100/3
2.	Q. Equus disappeared from North America during what time period?
	A. Pleistocene epoch
	S. Evans p. 4 100/3
200	
3.	Q. (Two Part) The foundation sire for the Morgan breed was Figure. Figure was known by what other name and how did he get that name?
	A. Justin Morgan – The custom at that time was to give the horse the same name as his owner
	S. Evans p. 36 200/3
4.	Q. What breed was formerly known as the "Karster" horse?
	A. Lipizzan (Lipizzaner)
	S. HIH 159B-2 200/4

## **300**

5.	Q. What is the base color of a red silver horse?		
	A. Bay		
	S. HIH 1040-2	300/3	
6.	<ul><li>Q. What marking is known</li><li>A. Blood mark</li><li>S. Griffiths p. 39</li></ul>	by the slang term "handprint"?  310/4	
400			
7.	Q. What is the anatomical term for the coffin joint?		
	A. Distal interphalangeal jo	int	
	S. Evans p. 689	410/4	
8.	Q. Which hormone is needed.  A. Oxytocin	ed for "milk let down" and parturition?	
	S. Evans p. 127	490/3	

### **500**

- 9. Q. What type of inheritance affects males and females equally and results in an observed phenotype **only** when there are **two** copies of the **recessive** allele necessary for the trait?
  - A. Autosomal recessive
  - S. HIH 1060-2

550/4

- 10. Q. Light areas of color over the eyes, on the muzzle, flanks and inside the legs are seen with influence of what color gene?
  - A. Pangaré gene
  - S. Evans p. 481

550/3

### **600**

- 11. Q. What term describes too much angle in the pastern joint?
  - A. Coon footed
  - S. DET p. 68

600/3

- 12. Q. What slang term refers to legs in which the tendons lack definition and do not stand out clearly?
  - A. Gummy legged
  - S. DET p. 126

## **700**

13. Q. During rapid growth, foals need more of which <b>two</b> amino a		, foals need more of which <b>two</b> amino acids?
	A. Lysine and threonine	<del>,</del>
	S. HIH 765-1	700/4
14. Q. Decreased immune function is associated with what vitamin d		unction is associated with what vitamin deficiency?
	A. Vitamin E	
	S. HIH 730-3	740/3
800		
15.	Q. Describe the typical stance of a horse with tetanus.	
	A. "Saw horse" stance	
	S. Griffiths p. 172	820/3
16.	Q. What is the scientific	name for the horn fly?
	A. Haematobia irritans	
	S. HIH 415-2	835/4
900		
17.	7. Q. Which type of hammer is used for making and shaping shoes?	
	A. Rounding hammer	
	S. Evans p. 728	900/3

- 18. Q. What characteristic makes a horse described as a "sunfisher" a desirable mount in bronc-riding events at a rodeo?
  - A. It is a bucking horse that twists its body in the air
  - S. DET p. 259

910/4

### 1000

- 19. Q. When neck reining and completing a turn to the left, the rein on which side of the neck would be the opposition rein?
  - A. Rein on the right side of the neck
  - S. DET p. 196

1000/3

- 20. Q. Identify **two** of the classical "airs above the ground" when all four feet are off the ground.
  - A. Ballatade, capriole and croupade
  - S. DET p. 22, 48, 73

# 2013 NC State 4-H Horse Bowl Contest Extra Toss Up Questions

Q. What are the **two** general types of chronic exertional rhabdomyloysis?

1.

	A. Recurrent exertional rhabdomyloysis (RER) Polysaccharide storage myopathy (PSSM)	
	S. HIH 795-4	700/4
2.	Q. Which <b>two</b> hormones ar	e produced by the adrenal glands?
	<u> </u>	) and corticoids (also accept glucocorticoids, inephrine, corticosterone, hydrocorticosterone,
	S. Evans p. 127	490/4
3.	Q. The <b>two</b> semilunar valves are located between what <b>specific</b> structures?	
	A. Right ventricle and pulm Left ventricle and aorta	nonary artery
	S. Evans p. 112	440/4
4.	Q. Which <b>two</b> external para	asites are intermediate hosts for habronemiasis?
	A. House fly and stable fly	
	S. Lewis p. 167	835/3

### 2013 NC State 4-H Horse Bowl Contest Extra Bonus Questions

1. Q. Identify **four** different variations of the rings on snaffle bits.

A. D-ring Egg butt

Half cheek Loose ring (O-ring)

Full cheek

S. HIH 1100-8 1000/3

- 2. Q. Other than infection, identify **four** problems that would result in a FPT or "failure of passive transfer" foal.
  - A. Mare that grazed endophyte-infested fescue
    Maiden mare (are sometimes agalactic)
    Low immunoglobulin G in colostrum
    Mare that is leaking milk longer than 24 hours before foaling
    Mare that rejects the foal
    Weak foal that is unable to stand
    Foal that lacks suckling reflex
  - S. HIH 950-2 500/4
- 3. Q. Identify **three** genetic disorders that primarily affect draft breeds.
  - A. Junctional Epidermolysis Bullosa (JEB)

Aniridia

Epitheliogenesis imperfecta

Rhabdomyolysis (Monday morning disease, Azoturia)

- S. Griffiths p. 100; HIH 1095-2; Evans p. 514 550/4
- 4. Q. What are the **two** predominant sire lines for Standarbred pacers and the **two** predominant sire line for Standarbred trotters?
  - A. Pacers The Direct and The Abbe linesTrotters The Axworthy and Peter the Great lines
  - S. Evans p. 29 200/4

## 2013 NC State 4-H Horse Bowl Contest Tie Breaker 1

1.	Q. For what <b>maximum</b> period of time after parturition would the foal be able to absorb the immunoglobulins in colostrum?		
	A. up to 12-36 hours after bir	rth (accept a	nything within this range)
	S. HIH 950-3; Evans p. 197		500/3
2.	Q. What breed is often confus are spotted?	sed with the	Appaloosa because most
	A. Rangerbred Horse		
	S. Evans p. 58	200/3	
3.	Q. In the hind legs, what is the	ne anatomic	al term for the short pastern bones
	A. Middle phalanx or Second	l phalanx	
	S. Kainer plate 12	410/3	
4.	Q. What term describes plant during pregnancy and cause of		_
	A. Teratogenic		
	S. Lewis p. 332	770/3	
5.	Q. What is the contributing fa	actor to the	condition known as anaphylaxis?
	A. Severe allergy		
	S. DET p. 10	800/3	

# 2013 NC State 4-H Horse Bowl Contest Tie Breaker 2

1.	Q. What term describes the components?	breakdown of feed into its smaller
	A. Digestion	
	S. Griffiths p. 107	700/3
2.	Q. In general, what is the ex	xpected effect of an antipyretic medication ?
	A. Fever reduction (also accept increases heat loss; reduces heat production)	
	S. DET p. 13	805/3
3.	Q. What is the toxin in whit	te snakeroot?
	A. Tremetol	
	S. Lewis p. 320	770/4
4.	Q. What type of activity wo	ould you use an Association saddle for?
	A. Rodeo events	
	S. DET p. 17	1000/4
5.	Q. A horse that stands camped under in the hind legs usually has what other conformation defect when viewed from the side?	
	A. Sickle hock	
	S. Lewis p. 384	600/3