

2012

**REGIONAL 4-H
HORSE BOWL**



JR HIGH DIVISION

2012 Regional Horse Bowl Contest

Junior High Division

Special Instructions

SEEDING ROUND (Central Region Only) – This first set of questions will be used in the Central Region to “seed” teams prior to beginning 1st Round Play.

QUESTION SETS (1-20) – There are 20 sets of 20 questions organized exactly as they have been in the past. There will be some repeated questions in this division due to the limited amount of study material available for this division.

BONUS QUESTIONS – There should be ample bonus questions for this division. Questions are listed in random order.

TIE BREAKERS AND REPLACEMENT QUESTIONS – There are 5 “sets” of 20 questions. Ignore the “set” organization. Some of these questions will likely be repeats of questions already asked during regular game play. The questions are not numbered so just make a “X” next to the questions used to keep track of which ones were used. If used as a replacement set, you can simply write the question number next to the question.

Good luck with your contest!

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Seeding Round (Central Region Only)

Q#	Question	Answer	Cat	Ref
1's	Which two types of flies feed by piercing the horse's skin with their bayonet-like mouth parts?	Horse and deer flies	Health	HIH 415-2
2's	A simple feeding practice in parasite management is to never do what?	Never feed horses directly on the ground.	Health	HIH 430-5
3's	What white leg marking extends from the coronary band to between the fetlock and knee?	Sock or half-stocking	Intro	HIH 140-2, TH 83
4's	How many permanent teeth do geldings most commonly have?	40 (or 42 if including wolf teeth)	Select	HIH 240-3
1's	What piece of equipment is designed to protect the hoof wall?	A shoe	Foot	HIH 515-1
2's	What is defined as a mechanical technique to assist in the medical treatment of foot or limb disease?	Therapeutic shoeing.	Foot	HIH 515-2
3's	What should the percent moisture content be in stored hay?	10%	Nutr	HIH 760-1
4's	What breed of horse was bred to perform under harsh desert conditions?	Arabian	Intro	HIH 153B-1
9	What animal is the definitive host for the organism that causes EPM?	opossum	Dis	HIH 670-1
10	What is the most common cause of colic?	parasites	Dis	TH 606
11	The Pony of the Americas Club will only register ponies in what height range?	46-56 inches	Intro	HIH 167B-2, TH 61
12	What face marking is characterized by a completely or almost completely white face and muzzle?	Bald face	Intro	HIH 140-2, TH 82
13	As a percentage of body weight, what is the minimum amount of long-stemmed roughage that a horse should receive daily?	0.75 to 1% OR 1% of the horse's body weight	Nutr	HIH 710-4, 710-1
14	A bony enlargement surrounding the bones of the pastern is known as what?	Ring Bone	Select	HIH 230-4
15	What do the initials EHV stand for?	Equine Herpes Virus	Dis	HIH 610-1
16	Approximately how long does it take food particles to pass through the horse's entire digestive system?	36 to 72 hours	Nutr	ES 114; HIH 710-3
17	What is the purpose of leather conditioner?	It puts vital oils removed by use and cleaning back into the leather.	Tack	HIH 1100-14
18	To provide a safe interior in a horse trailer what should be on the side walls, partitions and front of the manger to prevent injuries?	Padding	Tack	HIH 1155-3
19	In addition to a pre-purchase exam, what records might a prospective owner request from the seller?	Any of the following are correct: 1. deworming, 2. vaccination3. complete health records	Select	HIH 210-5
20	What is the term for an intact immature male horse?	Colt	Intro	HIH 110-5

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Question Set 1

Q#	Question	Answer	Cat	Ref
1's	What body measurement is a "weight tape" based on?	Heart girth	Nutr	HIH 720-1
2's	What is the term used to describe death of the body tissue?	Necrosis	Health	HIH 440-1
3's	What viral disease that affects the central nervous system is a serious concern because there is no treatment and it is almost always fatal?	Rabies	Dis	HIH 680-1
4's	Pinto color patterns are often described by one of what two general terms?	Tobiano and Overo	Intro	HIH 140-1
1's	What can be applied with horse shoes to treat sole bruises?	Pads	Foot	HIH 540a
2's	What is a dorsal stripe?	A stripe of color down the center of the back	Intro	ES 37
3's	What organisms grow rapidly in water high in nitrates and phosphates?	Bluegreen algae	Facil	HIH 360-2
4's	Name the breed registry represented by the initials AHA.	Arabian Horse Association	Intro	HIH 153B-2
9	What is the common number of permanent teeth for a stallion?	40 (or 42 if including wolf teeth)	Select	HIH 240-3
10	What is the correct term for the inner edge of the horse shoe?	Inner Rim	Foot	HIH 515-1
11	What is the term for the condition that results when animals have, produce, or obtain antibodies that enable them to fight off health issues?	immunity	Dis	ES 169
12	What is the most common legume hay fed to horses?	Alfalfa	Nutr	HIH 760-2
13	Once infected, how long does a horse remain infected with equine infectious anemia?	The rest of the horse's life	Dis	HIH 630-1
14	When excessive amounts of carbohydrate are eaten, what acid accumulates in the hindgut?	Lactic acid	Nutr	HIH 710-2
15	Name the condition indicated by the following stance...Front feet extended forward and hind feet drawn under the body for support.	Acute Laminitis	Foot	HIH 540-4
16	What is the common name for the bacterial infection caused by Streptococcus equi?	Strangles	Dis	HIH 615-1; TH 596
17	What type of cinch would you find on a decker pack saddle?	Center-fire rigged single cinch	Tack	HIH 1125-1
18	What well-defined skeletal structure holds the saddle on the horse without the need to excessively tighten the cinch?	Withers	Select	HIH 220-6
19	What procedure gives a veterinarian the most valuable information in diagnosing the type of colic that is occurring?	Rectal palpation	Health	HIH 435-2
20	What two conformation characteristics are indicative of capacity for reproduction and athletic performance?	Spring of rib and depth of heartgirth	Select	HIH 220-7

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Question Set 2

Q#	Question	Answer	Cat	Ref
1's	Describe the ideal withers.	Sharp, prominent, and well defined	Select	HIH 220-6
2's	What percentage of water is found in newly growing, springtime grasses?	80-90%	Nutr	HIH 760-1
3's	What is the name of the tube that transports food from mouth to the stomach?	esophagus	Nutr	ES 109
4's	What is the correct term for the front of the horse shoe?	Toe	Foot	HIH 515-1
1's	What is the average length of stride of a horse's canter?	10-15 feet	Intro	ES 74
2's	Mange is a contagious skin disease caused by what type of parasite?	Mites	Health	ES 187; 415-8
3's	What is the term for a living or non-living thing that can transmit infective agents to another living thing (example: mosquitos are a ___ for West Nile Virus)?	vector	Dis	ES 169
4's	Name the mechanical technique to align and support the horse's stance or to change the timing of its gait.	Corrective Shoeing	Foot	HIH 515-1
9	What is the common name for Recurrent Airway Onstruction or Chronic Obstructive Pulmonary Disease?	Heaves	Dis	ES 181; TH 607
10	What is the name for a young horse under 6-12 months of age of either sex?	Foal	Intro	HIH 110-5, ES 23
11	What are the "points" of the horse?	Mane, tail, lower legs, ear rims/tips	Intro	ES 36
12	Other than horses, what two species may also be affected by West Nile Virus?	birds and humans	Dis	HIH 665-1; ES 180
13	What is the most essential nutrient required by the horse?	Water	Health	HIH 420-2
14	What type of open wounds have clean straight edges and often bleed quite freely?	Incisions (incised wounds)	Health	HIH 440-1
15	List two first-aid treatments for overheating or heat stroke.	spray with cool water; ice packs on head and large blood vessels on inside of legs; stand horse in shade or in a cool well-ventilated barn or in front of a fan; a few swallows of cool water every few minutes	Health	HIH 410-1
16	What two areas of the foot are separated by the white line?	The sole and the wall	Foot	HIH 525-1
17	What is the most desirable material for building stalls?	wood	Facil	HIH 320-5
18	Why should barley be crimped or rolled before feeding to horses?	Because it has a tough hull	Nutr	760-6
19	What part of the hoof is prone to bruises?	Sole (toe and quarter areas)	Health	HIH 455-3
20	Name the foot condition that is characterized by a black, strong-smelling infection of the frog, caused by anaerobic bacteria and unclean conditions.	Thrush	Foot	HIH 540-1

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Question Set 3

Q#	Question	Answer	Cat	Ref
1's	In pounds, how much manure does a 1,000-pound horse produce per day?	45-50 pounds	Facil	HIH 360-2
2's	What is silver nitrate used to control in an open wound?	Bleeding	Health	HIH 440-2
3's	Red clover consumption often causes horses to do what?	slobber/salivate excessively	Nutr	HIH 750-3
4's	More than 90% of all documented rabies cases in the U.S. are from exposure to what?	wildlife	Dis	HIH 680-1
1's	What is the recommended minimum width for a stall door?	4 feet	Facil	HIH 320-6
2's	What area of the horse would you observe to determine if it is cow-hocked?	The Rear Legs	Select	HIH 230-7
3's	The walk is a ____ beat gait.	4	Intro	ES 70
4's	The Lippizzan breed was made famous by its connection to what?	Spanish Riding School	Intro	HIH 159B-1
9	What sex of horses are generally more consistent with behavior and performance?	Geldings	Select	HIH 210-4
10	Regardless of breed, the hindquarters should appear to be what shape when viewed from the side?	Square	Select	HIH 220-7
11	What organization is represented by the initials WSFI?	World Sidesaddle Federation Inc.	Intro	HIH 184B-1
12	What is the average length of stride of a horse's trot?	8-9 feet	Intro	ES 72
13	Observation from which angle would give you the best view of the slope of the horses shoulder?	The Profile or Side View	Select	HIH 220-1
14	What is the term for an enlargement of the ligament, tendon sheath or skin below the point of the hock?	Curb	Select	HIH 230-4
15	What is used to determine the specific fertilizer needs for a pasture?	Soil test	Facil	HIH 360-4
16	What is freestyle reining?	Reining manuevers set to music	Intro	HIH 183D-1
17	At what gait is lameness usually the most pronounced?	Trot	Health	HIH 455-1
18	What type of shoe can be applied to the foot without nails?	Glue-on shoes.	Foot	HIH 515-5
19	What are used on horse shoes to take the stress off the nails and stabilize the shoe on the foot?	Clips	Foot	HIH 515-2
20	What is the name of the slowest gait that is common to all breeds of horses?	walk	Intro	ES 70

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Question Set 4

Q#	Question	Answer	Cat	Ref
1's	When properly fitting a Western saddle to a horse, what is the correct spacing between the horse's withers and the fork of the saddle?	Two fingers	Tack	HIH 1100-3
2's	The term "founder" comes from the "sinking" of what bone that occurs as the disease progresses?	Coffin bone (or pedal bone, or P3)	Dis	HIH 640-1; ES 182
3's	What disease that may affect horses is the most common tick-borne disease of human beings in the United States?	Lyme disease	Dis	HIH 655-1
4's	What is the main use for a close contact saddle?	Jumping	Tack	HIH 1100-1
1's	Name the breed know for its many spotted coat patterns, including leopard and blanket.	Appaloosa	Intro	HIH 140-1
2's	What are two negative consequences of using hoof pads?	Weakened soles and pad dependancy.	Foot	HIH 515-5
3's	This Pinto color pattern name actually includes three different patterns that are characterized by white markings that usually do not cross over the back.	Overo	Intro	HIH 140-1, ES 49
4's	The area from the withers to the tailhead is known as the what?	The topline	Select	HIH 220-5
9	At what age is a horse considered to have a "full mouth"?	5 years old	Select	HIH 240-2
10	Describe the leg conformation of a horse that is "knock-kneed."	The entire knee is set to the inside of the horses leg	Select	HIH 230-3
11	What organ is known as the "fermentation vat" of the horse's digestive tract?	cecum	Nutr	ES 112
12	Under normal conditions how does the horse cool itself?	By sweating	Health	HIH 410-1
13	When developing a facilities plan, what is the first and most important step?	Establishing the goals of an operation	Facil	HIH 310-1
14	Name one device that can be added to shoes to provide additional traction in muddy or snow conditions	Toe calks, heel calks, studs, borium	Foot	HIH 515-4
15	What is the term for the uptake of food components by the digestive system?	absorption	Nutr	ES 108
16	What face marking is characterized by a small amount of white hair located between the nostrils?	Snip	Intro	HIH 140-2, TH 82
17	What are the "building blocks" of protein?	Amino acids	Nutr	ES 117; HIH 760-7
18	What is the conformation term for a horse that has excessive angulation in the hock?	Sickle hocked	Select	HIH 230-7
19	What is a sub-solar abscess?	An infection that occurs just under the sole of the foot.	Health	HIH 455-4
20	What type of bit does not apply pressure to a horse's mouth?	Hackamore	Tack	HIH 1100-8

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Question Set 5

Q#	Question	Answer	Cat	Ref
1's	Equine infectious anemia is comparable to what human disease?	HIV	Dis	HIH 630-1
2's	What are the three basic parts of a bridle?	1. Headstall, 2. Bit, 3. Reins	Tack	HIH 1100-6
3's	Why should a horse's diet be changed gradually over time?	avoid digestive upset/colic	Nutr	HIH 710-6
4's	What disease does EEE stand for?	Eastern Equine Encephalomyelitis (Encephalitis)	Dis	HIH 625-1; ES 177
1's	What part of the horse is affected by navicular disease?	Hoof	Foot	HIH 540-3
2's	What organization is represented by the initials NCHA?	National Cutting Horse Association	Intro	HIH 180D-2
3's	Why are heat lamps a major source of barn fires?	They are placed too close to hay or bedding which can ignite from the heat.	Facil	HIH 340-2
4's	When bandaging the rear leg, it is important to not put direct pressure over what part of the hock?	Point of the hock	Health	HIH 1160-3
9	Name the only draft horse breed to originate and be recognized as a breed in the United States.	American Cream Draft	Intro	HIH 155B-1
10	What are two defects to be aware of when examining a horse's mouth?	Parrot mouth (overshot muzzle) or monkey mouth (undershot muzzle)	Select	HIH 220-4
11	To prevent muddy conditions and erosion when designing a facility, what percent slope should the site should have?	2 to 6 percent	Facil	HIH 320-2
12	What type of bit is very gentle to use, non-allergenic, and has a soft, apple-flavored rubber mouthpiece?	Happy Mouth	Tack	HIH 1100-10
13	What term is used to describe a horse that is "off" or "unsound" in its way of going?	Lame	Health	HIH 455-1
14	Age determination is most accurate before a horse reaches approximately what age?	10 to 14 years	Select	HIH 240-1
15	What time of year are adult bot flies most active?	From July until frost	Health	HIH 415-5
16	What term describes the physical appearance of horse due to the arrangement of muscle, bone and other body tissue?	Conformation	Select	HIH 220-1
17	Ossification of the lateral cartilages that cause calcium to accumulate and harden are called what?	Side Bones	Select	HIH 230-4
18	Name the body color that describes a smokey or mouse-colored horse with a black mane and tail and often a dorsal stripe.	Grulla	Intro	HIH 140-1, ES 43
19	What dental treatment is needed if a horse is continuously dropping its feed?	Its teeth need to be floated	Health	HIH 420-2
20	If you are viewing a horse from the profile, you are looking at it from what view?	The side or side view	Select	HIH 220-1

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Question Set 6

Q#	Question	Answer	Cat	Ref
1's	When properly used this piece of equipment is meant to guide a horse and urge him on, not to abuse, and should never be used in anger.	Crop, whip or jump bat	Tack	HIH 1100-14
2's	What sex of horse is not recommended for exhibition by youth or 4-H?	Stallion	Select	HIH 210-4
3's	What is the simple definition of colic?	Abdominal pain	Health	HIH 435-1
4's	Deep indentures (Cups) in the horses permanent teeth are used to help determine what?	Age	Select	HIH 240-3
1's	What horse sport consists of a scored pre-determined pattern in which each movement is given a score from 0 to 10?	Dressage	Intro	HIH 181D-1
2's	HERDA or HC has been linked to what Quarter Horse stallion?	Poco Bueno	Dis	HIH 675-2
3's	What is the term for a horse whose toes point inward, also known as toed in?	pigeon toed	Select	HIH 230-1
4's	When do the corner permanent incisors erupt?	4 1/2 years	Select	HIH 240-2
9	The general area of the horses body located between the topline and the underline is called what?	The Barrel of the Horse	Select	HIH 220-3
10	Man originally used horses for what purpose?	Food source	Intro	ES 12, TH 5
11	What grain processing method uses rollers with corrugated surfaces?	Crimping	Nutr	HIH 760-9
12	At what point during lactation do a mare's milk yield, energy, and fat content peak?	During the first 30 days of lactation	Nutr	HIH 782-5
13	What is the framework that gives the body form and protects vital organs?	The skeletal structure	Select	HIH 230-1
14	Name another type of saddle besides the decker or crossbuck that can be used as a pack saddle.	Stock saddle or McCellan saddle	Tack	HIH 1125-1
15	Name three clinical signs of equine influenza.	Loss of appetite, dullness, frequent dry cough, fever, nasal discharge, weakness	Dis	HIH 605-1; ES 176; TH 597
16	What does the term encephalitis mean?	Inflammation of the brain	Dis	HIH625-1
17	What is the name for a pad that is removable after the shoe is on the foot?	Hospital Plate	Foot	HIH 515-5
18	What is the foundation of any successful fly control program?	Good sanitation.	Health	HIH 415-3
19	Thoroughbreds can reach up to what speed when galloping?	40 mph	Intro	HIH 173B-1
20	What is the oldest and most common method for selecting hay?	Visual appraisal	Nutr	HIH 750-5

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Question Set 7

Q#	Question	Answer	Cat	Ref
1's	What is the common name for strongyles?	Bloodworms	Health	ES 188; HIH 430-1
2's	What score does each cutting contestant start with from each judge?	70	Intro	HIH 180D-1
3's	An unregistered horse is referred to as what kind of horse?	Grade	Select	HIH 210-3
4's	Fossil evidence shows that members of the horse family existed how long ago?	60 million years	Intro	ES 5, TH 3
1's	What two types of bits are combined in a Pelham bit?	Snaffle and curb	Tack	HIH 1100-10
2's	On what three bone structures may ringbone occur?	long pastern bone; short pastern bone; coffin bone	Health	HIH 455-6
3's	The American Miniature Horse must not exceed what height?	34 inches	Intro	HIH 160B-1, TH 67
4's	Standardbreds can trot or pace at what speed?	30 mph	Intro	ES 81; HIH 171B-1
9	What two-beat lateral gait is primarily performed by Standardbred horses?	pace	Intro	ES 79
10	Define the word "tack."	Any or all of the equipment (saddle, bridle, harness) used to ride and/or drive a horse.	Tack	HIH 1100-1
11	Name two types of shoes that may be used during the treatment of laminitis.	(1) heart bar; (2) frog bar; (3) reverse shoe; (4) glue-on shoe	Dis	HIH 640-3
12	How often should horses hooves be trimmed or reshod to keep the feet in balance?	Every 4 to 6 weeks	Foot	HIH 525-2
13	What are the three elements most commonly present in fertilizer?	nitrogen; phosphorus; potassium (potash)	Nutr	HIH 730-7
14	Wall climbing and other bad trailering habits can be the result of what?	Poor driving practices, fast turns, stops, starts and lane changes	Tack	HIH 1150-1
15	Name two internal parasites that can lead to colic.	large roundworms (ascarids); tapeworms; strongyles (large and/or small); bots	Health	ES 188,189; HIH 435-3
16	What face marking is characterized by a narrow band of white hair between the horse's eyes that stops above the muzzle?	Stripe	Intro	HIH 140-2, TH 82
17	What is produced by mating a jack to a mare?	Mule	Intro	HIH 156B-1, ES 22, TH 76
18	Equine infectious anemia may also infect what two near relatives of the horse?	Donkeys, mules	Dis	HIH 630-1
19	Why should a horse be tied or cross-tied when evaluating it for purchase?	A horse that will not stand tied has limited use and is a risk for injury.	Select	HIH 210-5
20	The very top of the horse's head is called the what?	the poll	Select	HIH 220-3

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Question Set 8

Q#	Question	Answer	Cat	Ref
1's	Approximately how long is the small intestine of an average horse?	70 feet	Nutr	ES 111; HIH 710-2
2's	What does a stronger than usual pulse in the foot indicate?	Inflammation or laminitis	Foot	HIH 505-5
3's	What common clinical sign of salmonellosis can result in dehydration?	diarrhea	Dis	HIH 660-1
4's	What is produced by mating a stallion to a jennet?	Hinny	Intro	HIH 156B-1, ES 22, TH 76
1's	On what general structure is the white line found?	Hoof	Health	HIH 505-1
2's	What does the term tachycardia mean?	rapid heart rate	Health	TH 594
3's	The American Quarter Horse Association recognizes how many body colors?	16	Intro	HIH 168B-1
4's	How far from drinking water wells should manure storage sites be located?	100 ft.	Facil	HIH 360-2
9	Canine teeth are also known as what?	Tushes or tusks	Select	HIH 240-3
10	On a three-sided shelter for horses, in which direction should the opening be positioned?	Away from prevailing winds	Health	HIH 420-1
11	What part of the horse shoe contains the nail holes?	Crease (Fullering)	Foot	HIH 515-1
12	What tool is used to help locate an area of damage or injury in the foot?	Hoof testers	Health	HIH 455-3
13	What environmental factor stimulates hair growth of a horse?	Shorter length of daylight	Health	HIH 420-1
14	What is the term for a bony enlargement in the groove formed by the splint bone and cannon bone?	Splint	Select	HIH 230-4
15	What is recommended as the best and safest wire for horse fencing?	Five-diamond, V-mesh wire	Facil	HIH 350-3
16	What horse sport is known as "gymnastics on horseback"?	Vaulting	Intro	HIH 185D-1
17	As the horse increases in age what physical changes happens to the incisors?	Appear to slant forward and outward	Select	HIH 240-3
18	Name the procedure where the fat cover on the horses body is felt and visually observed.	Body Condition Scoring	Nutr	HIH 710-4
19	Larvicides are insecticides designed to kill what?	Fly larvae.	Health	HIH 415-4
20	At what age in a nursing foal's life will nutrient requirements exceed those provided by the dam's milk?	Within two months of foaling	Nutr	HIH 781-1

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Question Set 9

Q#	Question	Answer	Cat	Ref
1's	How many inches are in a hand?	4 inches	Intro	ES 27, TH 16
2's	What is the Western version of a Standing Martingale?	Tie-down	Tack	HIH 1100-10
3's	What horse sport is characterized by spins and sliding stops?	Reining	Intro	HIH 183D-1
4's	What forage contains a fungal endophyte that causes reproduction problems in mares?	Tall Fescue (Fescue)	Nutr	HIH 760-3
1's	How many pounds are in one ton?	2000 lbs	Facil	HIH 365-4
2's	Name two types of horses on which wedge-heeled aluminum shoes are commonly used.	1. Hunters, 2. Jumpers, 3. Steep-pasterned pleasure horses	Foot	HIH 515-5
3's	What is the recommended minimum height of a horse stall?	8 feet	Facil	HIH 320-3
4's	What is the ideal slope of the shoulder?	45 to 50 degrees	Select	HIH 220-6
9	Name the body color that may range from tan to reddish-brown with a black mane and tail.	Bay	Intro	HIH 140-1, ES 39, TH 80
10	What kind of knot should be used when tying a horse in a trailer?	Quick Release Knot	Tack	HIH 1150-2
11	What are the two most commonly used products designed to protect the horse's leg during transportation?	Shipping quilts with wraps and shipping boots	Tack	HIH 1160-3
12	What is the type of bridle that features an additional headstall and allows for two bits in the horse's mouth?	A "full bridle"	Tack	HIH 1100-6
13	What is the most accurate method to assess the nutrient content of hay?	Chemical analysis	Nutr	HIH 750-5
14	What disease do the initials EPM stand for?	Equine Protozoal Myeloencephalitis	Dis	HIH 670-1
15	An extension backward of the flexor tendon caused by tearing or stretching is known as what?	Bowed tendon	Select	HIH 230-4
16	Name two breeds of horses characterized by white patterns that may appear on any base color.	Appaloosa, Paint, Pinto, POA, Knabstrupper	Intro	HIH 140-1
17	What Irish breed of ponies is known for its jumping ability?	Connemara	Intro	TH 65
18	What class of fire extinguisher should be kept in a barn?	Class ABC fire extinguisher.	Facil	HIH 340-2
19	What breed of pony originated in the hills and valleys of Wales?	Welsh Pony	Intro	HIH 175B-1
20	Mottled skin, vertically striped hooves, and visible white sclera are characteristics of what breed?	Appaloosa	Intro	HIH 152B-2

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Question Set 10

Q#	Question	Answer	Cat	Ref
1's	The eye position of a modern day horse allows about how many degrees of vision?	About 300 degrees	Select	HIH 220-4
2's	Cribbing and weaving are two vices most frequently associated with what management practice?	Stall confinement	Health	HIH 425-6
3's	What is indicated by the amount of seed heads and flowers present in grass or legume hay?	Stage of maturity at the time of harvest	Nutr	HIH 750-2
4's	What breed registry is represented by the initials APHA?	Amerian Paint Horse Association	Intro	HIH 163B-1
1's	What modification is used on the shoes of trotting or driving horses to increase knee action?	Toe Weights	Foot	HIH 515-3
2's	What virus is the most common cause of respiratory disease among foals and yearlings in the fall and winter months?	EHV-4 (or rhinopneumonitis)	Dis	HIH 610-4; ES 178
3's	An active population of what are found in the horse's hindgut?	Bacteria and protozoa (Microbes)	Nutr	ES 112; HIH 710-2
4's	What is the term for a partial or complete blockage of the esophagus?	Choke	Dis	TH 611
9	Why should damp or "heavy" hay not be stored in a barn?	Heat can build up from the moisture in the bale and cause spontaneous combustion.	Facil	HIH 340-1
10	What is the name for the headpiece that is used for controlling the horse for riding or driving?	Bridle	Intro	HIH 110-5
11	What metal bit material increases salivation to make the mouth more responsive?	Copper	Tack	HIH 1100-10
12	How many Calories in one Megacalorie?	1000 calories	Nutr	HIH 790-1
13	What disease is characterized by a fungal infection of the hoof wall?	White line disease	Foot	HIH 540a
14	What is the term for any inflammatory disease of the lungs?	pneumonia	Dis	TH 597
15	What is the normal body temperature for an adult horse?	99 - 101 degrees Farenheit	Health	ES 155; TH 594
16	The part of the bridle that is placed in the horse's mouth is better know by what name?	The bit	Intro	HIH 110-5
17	If someone wants to begin a breeding program, what two sexes should be purchased?	Mares and stallions	Select	HIH 210-4
18	Which fat soluble vitamin is called the "sunshine vitamin"?	vitamin D	Nutr	ES 123
19	What insect is generally responsible for transmitting West Nile Virus to horses, birds, and humans?	mosquitos	Dis	HIH 665-1
20	What is the purpose of an anti-sweat sheet?	To wick moisture away from the body after a hard workout.	Tack	HIH 1100-12

Junior High Division

Question Set 11

Q#	Question	Answer	Cat	Ref
1's	Name three areas where muscling in the horse can be observed?	1. Arm, 2. Forearm, 3. Shoulder, 4. Stifle, 5. Gaskin, 6. Pectoral Area 7. Rear Quarters	Select	HIH 220-7
2's	What are two types of horse trailer hitches?	Gooseneck, Bumper-pull	Tack	HIH 1155-1
3's	How many incisors do horses have in their upper jaw?	Six	Health	HIH 405-1
4's	The term for a horse whose toes point outward (toes-out) is also called what?	"Splay Footed"	Select	HIH 230-2
1's	Of the internal parasites, which one is the most significant and most common?	Strongyles (bloodworms)	Health	HIH 430-1
2's	What method is used to determine the degree of rotation of the coffin bone that may have occurred in the hooves of a horse with laminitis?	Radiographs (x-rays)	Dis	HIH 640-2
3's	What test is used to determine the amount of lime and fertilizer to apply to pasture?	Soil test	Nutr	HIH 730-3
4's	An abnormality that does not affect the intended use or performance of a horse is called what?	Blemish	Select	HIH 230-1
9	Name one of the two breed registries which are represented by the initials AMHA.	American Morgan Horse Association, American Miniature Horse Association	Intro	HIH 160B-1, HIH 162B-2
10	Horse height is measured in what unit?	Hands	Intro	ES 27, TH 16
11	What is the wooden dowel device placed around a horse's neck to prevent them from reaching their bandages?	Neck Cradle	Tack	HIH 1160-3
12	What tool is used to collect hay samples from small square bales or large round bales?	Hay bale probe, Hay core drill	Nutr	HIH 750-6
13	What is another name for a vertical crack in a hoof wall	Sand Crack, Quarter Crack, Toe Crack	Foot	HIH 540-2
14	What is the term used to describe the eating of feces?	Coprophagy	Health	HIH 425-6
15	What vitamin is lost when stored hay is exposed to the sun and becomes bleached?	Vitamin A	Nutr	ES 123; HIH 750-9
16	What farrier tool is used to remove the surplus growth of the hoof wall?	Hoof nippers	Foot	HIH 530-1
17	What is known as nature's "hoof conditioner"?	Water	Foot	HIH 505-7
18	Which sex of horse will have the largest, deepest jaw?	Stallion	Select	HIH 220-4
19	In what state did the Morgan breed originate?	Vermont	Intro	HIH 162B-1
20	At what age do horses' hooves grow at the highest rate?	Foals	Foot	HIH 505-6

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Question Set 12

Q#	Question	Answer	Cat	Ref
1's	The cannon bone is located on what part of the horses body?	The leg	Select	HIH 220-3
2's	What term describes the physical appearance of an animal due to arrangement of muscle, bone and other body tissue?	Conformation	Select	HIH 220-1
3's	What do you call a blockage of the intestinal tract?	Impaction	Health	HIH 435-1
4's	At about what age does Galvayne's Groove completely vanish?	30 years age	Select	HIH 240-4
1's	What is the most important factor affecting the quality of a forage?	Stage of maturity at time of harvest	Nutr	HIH 760-4
2's	How often should horses be offered water during long trailer trips?	Every three to four hours.	Tack	HIH 1150-2
3's	What is the conformation term for a horse that stands closer at the ground than at the origin of the legs in the chest?	Base narrow	Select	HIH 230-2
4's	In what part of the world did donkeys most likely originate?	Africa	Intro	HIH 156B-1
9	What disease has been associated with closeness to rivers?	Potomac Horse Fever	Dis	HIH 650-1
10	What are the two most important energy-producing nutrients in equine diets?	carbohydrates and fats	Nutr	ES 143
11	What tests is used to diagnose equine infectious anemia?	Coggins test	Dis	HIH 630-1; ES 176
12	What is the name for a mature female horse?	Mare	Intro	HIH 110-5, ES 23
13	How much space is recommended on either side of the rider's foot when placed in the stirrup irons?	1/4 inch on either side of the foot	Tack	HIH 1100-3
14	Name the body color used to describe a golden horse with a white mane and tail.	Palomino	Intro	HIH 140-1, HIH 164B-1, ES 43
15	What body system is affected by West Nile Virus?	central nervous system	Dis	HIH 665-1
16	Name the body color that describes a uniform mixture of black and white hairs on the body with a darker head and legs.	Blue Roan	Intro	HIH 140-1, ES 47
17	What is the name for the second and third nail holes on a horse shoe?	Quarter Nail Holes	Foot	HIH 515-1
18	How many inches taller should the trailer be than the horse's head at a normal resting position?	10 inches	Tack	HIH 1155-2
19	What is the name given to horses 14.2 hands tall and smaller?	Pony	Intro	ES 20, TH 16
20	What two primary factors should be considered when selecting a horse trailer?	Safety, Comfort	Tack	HIH 1155-2

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Question Set 13

Q#	Question	Answer	Cat	Ref
1's	The neck is used by the horse as a what?	Balance arm	Select	HIH 220-5
2's	The actual damage to the hoof occurs during what phase of laminitis?	Acute phase	Dis	HIH 640-1
3's	When viewing from the side, name the two primary structural faults that exist in the knees.	Over at the knees (buck kneed) and back at the knees (calf kneed)	Select	HIH 230-5,6
4's	What organism is responsible for transmitting the bacteria that causes Lyme disease to horses or other animals?	Ticks (Ixodes ticks)	Dis	HIH 655-1
1's	What type of open wounds are irregularly shaped with torn edges?	Lacerations or tears	Health	HIH 440-1
2's	What Spanish breed is known as "the horse with the fine walk"?	Paso Fino	Intro	HIH 165B-1
3's	A deviation in structure or function that interferes with the horses intended use or performance is called what?	Unsoundness	Select	HIH 230-1
4's	Paddocks, corrals and arenas are best fenced with boards or other strong materials. Why?	Horses have greater difficulty stopping in small areas and are more likely to run into a fence	Facil	HIH 350-2
9	What teeth in the horse are used to bite off plants as they graze?	Incisors	Select	HIH 240-1
10	In what direction should hooves be picked out?	From heel to toe.	Foot	HIH 530-1
11	Which category of vitamins includes thiamin, riboflavin, niacin, biotin, folic acid and vitamin C?	Water soluble vitamins	Nutr	ES 122; HIH 760-10
12	What registry is represented by the initials TWHBEA?	Tennessee Walking Horse Breeders and Exhibitors Association	Intro	HIH 172B-1
13	What is the largest non-formal youth development organization in the United States?	4-H	Intro	HIH 190D-1
14	What insect commonly contaminates alfalfa hay?	Blister beetle	Nutr	HIH 760-2
15	What type of amino acids cannot be synthesized in the horse's digestive system and must be supplied in the diet?	essential	Nutr	ES 118
16	Complete this phrase... "No (blank) No Horse"	Foot (No Foot, No Horse)	Foot	HIH 505-1
17	What behavior is displayed as the primary defense of the horse?	Flight	Facil	HIH 320-1
18	Name one parasite that is transmitted to healthy horses through contact with infected horses, blankets, or grooming equipment.	Mites (mange mites) or lice	Health	ES 186, 187; HIH 415-9
19	As a general rule, how do you determine the height of fences used around small paddocks, corrals and stallion pens?	The top of the fence should be at eye level with the horse's head in a natural upright position	Facil	HIH 350-1
20	Name one of the two locations on the horse's body where you should take its pulse or heart rate.	behind the elbow/at the girth or between the jaw bones/inside the cheek groove	Health	ES 160

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Question Set 14

Q#	Question	Answer	Cat	Ref
1's	Horses with what type of leg conformation are more likely to develop osselets?	Steep (or upright) pasterns	Health	HIH 455-6
2's	What is the purpose of a pannier?	To carry gear, food, or equipment on a pack horse	Tack	HIH 1125-3
3's	What is the term for an altered or castrated male horse of any age?	Gelding	Intro	HIH 110-5, ES 23
4's	What organ is affected by equine encephalomyelitis?	Brain	Dis	HIH 625-1
1's	What organization is represented by the initials NARHA?	North American Riding for the Handicapped Association	Intro	HIH 198D-1
2's	What ventilation system is the most common and cost effective for horse facilities?	Natural ventilation	Facil	HIH 320-8
3's	In what part of the horse does the disorder "thrush" occur?	Hoof	Foot	HIH 540-1
4's	What general portion of the horse's digestive tract contains the cecum, large colon, small colon and rectum?	Hindgut	Nutr	ES 112; HIH 710-2
9	Approximately how much feed material is contained in the large colon of an average horse?	14-22 gallons (86 quarts)	Nutr	ES 113; HIH 710-2
10	How many permanent teeth do mares most commonly have?	36	Select	HIH 240-3
11	How long do incisors and cheek teeth continue to erupt?	Until the horse is in its early 20's.	Health	HIH 405-3
12	What common hoof problem is described as bruises of the sole at the angle of the wall and bar of the hoof?	Corns	Health	HIH 455-2
13	What disease is caused by the bacterium Clostridium tetani?	Tetanus	Dis	HIH 645-1; TH 601
14	What is on an English bridle that is not found on a Western bridle?	Cavesson or Noseband	Tack	HIH 1100-7,9
15	What disease is commonly referred to as "founder"?	Laminitis	Dis	HIH 640-1; ES 182
16	Horses that sweat profusely lose water as well as what?	Electrolytes (salts)	Health	HIH 410-1
17	What breed registry is represented by the initials PBA?	Palomino Horse Breeders of America	Intro	HIH 164B-1
18	What term is used to describe the disruption and/or tearing of the tendon fibers in the horse's leg?	Bowed Tendon/Tendonitis/Tendon Strain	Health	HIH 455-7
19	What is generally recommended, and sometimes required by law, that owners do with Coggins positive horses?	Euthanization	Dis	HIH 630-2
20	What substance in the mouth begins the process of digestion?	Saliva (enzymes/amylase)	Nutr	HIH 710-1

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Question Set 15

Q#	Question	Answer	Cat	Ref
1's	What can be managed by stockpiling, composting and/or daily land application on a horse farm?	Manure	Facil	HIH 365-1
2's	What is the name for an adult intact male	Stallion	Intro	HIH 110-5, ES 23
3's	What is the difference between a sign and a symptom of a disease?	signs can be measured (or symptoms are subjective/signs are objective)	Health	ES 166
4's	What horse was the foundation sire of the Tennessee Walking Horse breed?	Allen F1	Intro	HIH 172B-1
1's	What are the 12 front teeth in the horses mouth called?	Incisors	Select	HIH 240-2
2's	The process in which microbes break down manure using the right balance of moisture and air is called what?	composting	Facil	HIH 365-2
3's	On what forage do blister beetles feed?	Alfalfa	Health	HIH 415-9
4's	What lameness problem may result from salmonellosis?	laminitis	Dis	HIH 660-2
9	What breed name is represented by the initials POA?	Pony of the Americas	Intro	HIH 167B-1
10	What color pattern name is used to describe horses with both overo and tobiano characteristics?	Tovero	Intro	HIH 163B-1
11	Horses and riders competing in cutting competitions are given how long to perform?	2:30 (2.5 minutes)	Intro	HIH 180D-1
12	What is the tool used to clean out the bottom of the horse's foot?	Hoof pick	Foot	HIH 530-1, 535-2
13	What is the name for the last nail hole on a horse shoe?	Heel Nail Hole	Foot	HIH 515-1
14	Which teeth makeup the cheek teeth?	Premolars and Molars	Health	HIH 405-1
15	What is the name of the registry for horses of Pinto coloration and stock-type breeding?	American Paint Horse Association	Intro	HIH 163B-1
16	What is the name of the behavior occurring when horses hook their upper incisor teeth on a solid object and swallow gulps of air?	Cribbing, also known as Wind sucking or Aerophagia	Nutr	HIH 710-5, or 425-6
17	What is recommended as the best type of covering for the floor of a horse trailer?	Rubber mats	Tack	HIH 1155-2
18	The single most important characteristic in equine selection which forms the basics for movement, length of stride and performance is referred to as what?	Balance	Select	HIH 220-5
19	Name the fat-soluble vitamins.	A, D, E, K	Nutr	ES 111; HIH 710-2, 760-10
20	What compound puts vital oils back into leather that use and cleaning remove?	Leather conditioner/oil	Tack	HIH 1100-14

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Question Set 16

Q#	Question	Answer	Cat	Ref
1's	Of what material are "never-rust" bits and hardware made?	Solid nickel	Tack	HIH 1100-10
2's	If adequate forage is available, how many hours per day on average will free-ranging horses spend grazing?	10 to 12 hours/day	Health	HIH 425-5
3's	What causes gastric ulcers?	Excessive grain intake, feed restriction, stress (stabling or trailering), lack of forage etc...	Health	HIH 435-2
4's	What is the term for the mechanical process of chewing?	mastication	Nutr	ES 109
1's	Name three early signs of Strangles.	fever, depression, loss of appetite, unwillingness to swallow, standing with neck stretched and head pointed forward, nasal discharge (and/or eyes), dry cough	Dis	HIH 615-1; ES 171; TH 596
2's	A horse with a body condition score of "9" would be categorized as what?	Extremely fat (obese)	Nutr	HIH 710-4, 720-3
3's	What grain may be infected with ergot?	Rye	Nutr	HIH 760-6
4's	In high tensil wire fencing, how many strands are recommended for horses?	10 to 12	Facil	HIH 350-4
9	What age of horse is primarily affected by ascarids?	Foals and young growing horses	Health	ES 189; 430-1
10	Name two of the four body colors recognized by the International Buckskin Horse Association.	Buckskin, Dun, Red Dun, and Grulla	Intro	HIH 154B-1
11	What color should the gums be in a normal, healthy horse?	medium pink	Health	ES 163
12	What are the two main reasons to use molasses in horse feeds?	Improve palatability; prevent freezing; reduce dust	Nutr	HIH 760-7
13	What is primary cause of runoff on horse farms?	Overgrazing	Facil	HIH 360-4
14	A horse with a positive Coggins test is infected with what disease?	Equine Infectious Anemia	Dis	HIH 630-1; ES 176; TH 601
15	What should the calcium to phosphorous ratio be in the diet of an adult horse?	1:1 to 3:1	Nutr	ES 133
16	Name one good alternative to buying a horse that you might try before deciding to buy.	Leasing (also acceptable: Riding lessons)	Intro	HIH 110-1
17	What is another name for therapeutic riding?	Hippotherapy	Select	HIH 250-1
18	Which warmblood breed is of East Prussian origin?	Trakehner	Intro	HIH 174B-1
19	What is the term for an immature female horse?	Filly	Intro	HIH 110-5
20	What Native American tribe helped promote the spread of Spanish horses throughout the American West?	Apache	Intro	HIH 170B-1

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Question Set 17

Q#	Question	Answer	Cat	Ref
1's	What organization registers Standardbred horses?	United States Trotting Association	Intro	HIH 171B-1
2's	If the middle incisors of the upper jaw are so far forward that they do not contact the incisors of the lower jaw, this horse is said to be what?	Parrot-mouthed	Health	HIH 405-4
3's	What type of shoe distributes the weight across the hoof wall and the frog?	Heartbar Shoe	Foot	HIH 515-4
4's	In what country did the Hackney originate?	Great Britain	Intro	HIH 158B-1
1's	What are the two goals of a water quality plan?	Reduce runoff and protect groundwater	Facil	HIH 360-1
2's	What do the initials ADF stand for?	Acid detergent fiber	Nutr	ES 146; 750-2
3's	What is a pus pocket or infection of the sensitive structures of the foot?	Abscess	Foot	HIH 540-2
4's	What breed registry is represented by the initials ASHA?	American Saddlebred Horse Association	Intro	HIH 169B-1
9	When do the center permanent incisors erupt?	2 1/2 years	Select	HIH 240-2
10	What breed is noted for its soundness, beauty, and especially stamina?	Arabian	Intro	HIH 153B-1
11	What is the term for the angle formed where the upper and lower incisor teeth meet?	Angle of incidence (or incisive arcade)	Select	HIH 240-3, 4
12	What is defined as the inflammation of a joint?	Arthritis	Health	HIH 450-5
13	The Stomach, the small intestine and the cecum are part of what body system in the	The Digestive System	Nutr	ES 108; HIH 710-2
14	At what height of pasture should horses be removed to prevent overgrazing?	3-4 inches	Facil	HIH 360-4
15	How often should adult horses have their teeth checked?	Yearly	Health	HIH 405-2
16	What is the purpose of the digital cushion?	To absorb shock	Foot	HIH 505-4
17	How many different amino acids exist in nature?	22	Nutr	ES 117
18	What is the normal pulse rate for an adult horse?	30 - 40 beats per minute (or 32-44, 35-35, or 45-60)	Health	ES 155; HIH 410-1, 425-1; TH 594
19	Which of the following is not a muscle found in the horse... The Pectoral, The Deltoid, or the Pastern?	The pastern	Select	HIH 220-3
20	What type of grain processing forces ground grains through a die under pressure and steam heat?	Extrusion (extruded feeds)	Nutr	HIH 760-9

Junior High Division

Question Set 18

Q#	Question	Answer	Cat	Ref
1's	A conformational fault that refers to horses whose entire forelimb is too far under its body is known as what?	"Camped Under"	Select	HIH 230-5
2's	When viewed from the rear, horses that are out at the hock and in at the toe have what conformational fault?	Bow legged or Bandy legged	Select	HIH 230-7
3's	When do the intermediate permanent incisors erupt?	3 1/2 years	Select	HIH 240-2
4's	What is the absolute minimum size for a horse stall?	10 ft by 10 ft	Facil	HIH 320-3
1's	What clostridial disease can cause hypersensitivity to light, touch, or sounds and prolapse of the third eyelid?	Tetanus (or "lockjaw")	Dis	HIH 645-1; TH 601
2's	Young permanent teeth have deep indentures in the center of their surfaces and are known as what?	Cups	Select	HIH 240-3
3's	What is the term for a disease that can be caught or spread from one animal to another?	contagious	Dis	ES 167
4's	Why are clips used on horseshoes?	Clips take the stress off the nails and stabilize the shoe on the foot	Foot	HIH 515-2
9	What is the most common bedding material for horse kept in stalls?	hay or straw	Facil	HIH 365-1
10	Who is quoted as saying "The outside of the horse is good for the inside of a man?"	Will Rogers	Select	HIH 210-1
11	A horse's "mother" is called its what?	Dam	Intro	ES 23
12	A horse's "father" is called its what?	Sire	Intro	ES 23
13	The Withers, back, loin or coupling, and croup refer to what area of the horse?	Topline	Select	HIH 220-6
14	What are the two basic types of English saddles?	1. Forward (or Huntseat) and 2. Flat (or Saddleseat)	Tack	HIH 1100-1
15	How many cheek teeth do horses generally have?	Six on each side of each jaw, 24 total	Health	HIH 405-1
16	What white leg marking extends from the coronary band to the bottom of the fetlock?	Pastern	Intro	HIH 140-2, TH 83
17	What is the name of the small rudimentary teeth that appear just in front of the upper cheek teeth, rarely present in the lower jaw?	Wolf teeth	Health	HIH 405-1
18	What piece of equipment does a farrier use for leg protection?	Horseshoing Apron	Foot	HIH 530-1
19	Travel distance to a fire extinguisher from any point in the barn should be no more than how many feet?	75 feet	Facil	HIH 340-2
20	What two minerals are present in white salt?	Sodium and chloride	Nutr	HIH 760-10

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Question Set 19

Q#	Question	Answer	Cat	Ref
1's	What is the term used to describe a professional specializing in equine hoof care?	Farrier	Foot	HIH 555-1
2's	What do the initials PVC stand for?	Polyvinyl chloride	Facil	HIH 350-5
3's	Name the two styles of english martingales most commonly used.	Running and Standing	Tack	HIH 1100-10
4's	Parasitic wasps can be used to control what problem at a horse barn?	Flies	Health	HIH 415-3
1's	What should be the first priority when designing horse fencing?	Safety	Facil	HIH 350-1
2's	Name three materials commonly used for stall bedding.	1. Straw, 2. wood shavings, 3. sawdust, 4. ground corncobs, 5. recycled newspaper	Facil	HIH 330-1,2
3's	What is the key factor to consider when selecting a vehicle to pull a trailer?	Safety	Tack	HIH 1155-1
4's	What farrier tool is available in right-handed and left-handed styles?	Hoof knife	Foot	HIH 530-2
9	Compared to adult horses, what is different about the pulse and respiration rate of foals?	Pulse and respiration are higher in foals than adult horses	Health	HIH 425-1
10	A conformational fault that refers to horses whose entire forelimb is too far forward and away from the body is known as what?	"Camped out"	Select	HIH 230-5
11	What breed initially became famous and was named for its sprinting ability?	American Quarter Horse	Intro	HIH 168B-1
12	Name the body color that may vary among many shades of red with a mane and tail that may be slightly lighter, slightly darker, or even flaxen.	Chestnut (Also acceptable: sorrel)	Intro	HIH 140-1, ES 39, TH 80
13	What physical attribute of the horse is related to body condition score?	Degree of fat cover	Nutr	HIH 710-4
14	An animal of unknown or unregistered bloodlines is often described by what term?	Grade	Intro	HIH 110-5
15	If a horse consumes blister beetles, what may happen?	It may become sick and possibly die.	Health	HIH 415-9
16	What organization helps promote the rehabilitation of individuals with disabilities through equine-facilitated activities?	North American Riding for the Handicapped Association (NARHA)	Intro	HIH 198D-1
17	A tool used to open nail holes to better accomodate a horseshoe nail	Pritchel	Foot	HIH 530-4
18	What is the practical purpose of a breastcollar?	To keep the saddle from sliding backwards or sideways.	Tack	HIH 1100-12
19	What breed registry is represented by the initials IBHA?	International Buckskin Horse Association	Intro	HIH 154B-1
20	This Pinto color pattern is characterized by white body markings that are often regular and distinct and usually cross over the back.	Tobiano	Intro	HIH 140-1, ES 49

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Question Set 20

Q#	Question	Answer	Cat	Ref
1's	What are two causes of malaligned teeth?	Congenital (born with defect) or Injury	Health	HIH 405-4
2's	Large, heavy-bodied horses with small feet are usually predisposed to what condition?	Navicular Disease	Health	HIH 455-2
3's	Name two areas where muscling in the horse can be observed?	(Two of the following possible answers) 1. Arm, 2. Forearm, 3. Shoulder, 4. Stifle, 5. Gaskin, 6. Pectorial Area 7. Rear Quarters	Select	HIH 220-7
4's	To kill most parasite eggs, manure should be composted for at least two weeks, at what temperature?	145 degrees Fahrenheit	Facil	HIH 365-6
1's	What is the term for the sole bruises caused by leaving short heeled shoes on too long?	Corns	Foot	HIH 540a
2's	The slope of the shoulder influences the length of what?	Stride	Select	HIH 220-6
3's	What bone is affected by laminitis?	P3, pedal or coffin	Foot	HIH 505-5
4's	What is the average speed of a horse's canter?	12 mph	Intro	ES 74
9	What type of rein is formed by one continuous rein attached to each side of the bit?	A contest/roping rein	Tack	HIH 1100-8
10	How long do most food particles remain in the horse's stomach before passing into the small intestine?	About 15 minutes (15-30 minutes)	Nutr	ES 110; HIH 710-1
11	What are the two most distinctive, well-known Appaloosa coat patterns?	Leopard and Blanket	Intro	HIH 140-1
12	Name the two most important natural transmitters of equine infectious anemia.	Horse flies, deer flies	Dis	HIH 630-1
13	How many reins are used with a Pelham bit?	Four	Tack	HIH 1100-6
14	The number of permanent teeth of a mature horse depends on the horse's what?	Sex	Select	HIH 240-3
15	What is the correct term for the outer edge of the horse shoe?	Outer Rim	Foot	HIH 515-1
16	What British breed is known for its animation, personality, and strong way of going?	Hackney	Intro	HIH 158B-1
17	In a normal horse, within how many seconds should the capillary fill time take to return to its normal color?	1-3 or 2-3 seconds	Health	ES 163; HIH 425-2
18	What is the primary site for fat digestion and absorption?	Small intestine	Nutr	ES 111; HIH 710-1
19	What is purpose of adding shanks to the mouthpiece of a bit?	To create leverage (or allows the bit to apply pressure)	Tack	HIH 1100-8
20	The canter is a ____ beat gait.	3	Intro	ES 74

Junior High Division

Tie Breaker and Replacement Questions Set 1

Q#	Question	Answer	Cat	Ref
	What tool is used to help locate an area of damage or injury in the foot?	Hoof testers	Health	HIH 455-3
	What is another name for therapeutic riding?	Hippotherapy	Select	HIH 250-1
	What color should the gums be in a normal, healthy horse?	medium pink	Health	ES 163
	Name the body color that may vary among many shades of red with a mane and tail that may be slightly lighter, slightly darker, or even flaxen.	Chestnut (Also acceptable: sorrel)	Intro	HIH 140-1, ES 39, TH 80
	Why are clips used on horseshoes?	Clips take the stress off the nails and stabilize the shoe on the foot	Foot	HIH 515-2
	Define the word "tack."	Any or all of the equipment (saddle, bridle, harness) used to ride and/or drive a horse.	Tack	HIH 1100-1
	The canter is a ____ beat gait.	3	Intro	ES 74
	In what city is the headquarters for the Tennessee Walking Horse Breeders and Exhibitors Asssocation located?	Lewisburg, TN	Intro	HIH 172B-2
	What is the name for the first nail hole on a horse shoe?	The toe nail hole	Foot	HIH 515-1
	What is the correct term for the inner edge of the horse shoe?	Inner Rim	Foot	HIH 515-1
	What term describes the physical appearance of an animal due to arrangement of muscle, bone and other body tissue?	Conformation	Select	HIH 220-1
	What horse sport consists of a scored pre-determined pattern in which each movement is given a score from 0 to 10?	Dressage	Intro	HIH 181D-1
	What type of wire is not recommended for horse fencing?	Barbed wire	Facil	HIH 350-4
	Galvayne's Groove appears at about what age?	10-12 years of age	Select	HIH 240-4
	What Spanish breed is known as "the horse with the fine walk"?	Paso Fino	Intro	HIH 165B-1
	What is the term for an altered or castrated male horse of any age?	Gelding	Intro	HIH 110-5, ES 23
	What disease has been associated with closeness to rivers?	Potomac Horse Fever	Dis	HIH 650-1
	In what country did the Hackney originate?	Great Britain	Intro	HIH 158B-1
	Regardless of breed, the hindquarters should appear to be what shape when viewed from the side?	Square	Select	HIH 220-7
	Cribbing and weaving are two vices most frequently associated with what management practice?	Stall confinement	Health	HIH 425-6

Junior High Division

Tie Breaker and Replacement Questions Set 2

Q#	Question	Answer	Cat	Ref
	What is the name for a pad that is removable after the shoe is on the foot?	Hospital Plate	Foot	HIH 515-5
	What British breed is known for its animation, personality, and strong way of going?	Hackney	Intro	HIH 158B-1
	What horse sport is known as "gymnastics on horseback"?	Vaulting	Intro	HIH 185D-1
	What are two negative consequences of using hoof pads?	Weakened soles and pad dependency.	Foot	HIH 515-5
	What is the term for a partial or complete blockage of the esophagus?	Choke	Dis	TH 611
	What does a stronger than usual pulse in the foot indicate?	Inflammation or laminitis	Foot	HIH 505-5
	What is indicated by the amount of seed heads and flowers present in grass or legume hay?	Stage of maturity at the time of harvest	Nutr	HIH 750-2
	What should be done to protect stream and river banks from trampling?	Fence horses out of stream and river banks	Facil	HIH 360-4
	This Pinto color pattern is characterized by white body markings that are often regular and distinct and usually cross over the back.	Tobiano	Intro	HIH 140-1, ES 49
	What are the two most commonly used products designed to protect the horse's leg during transportation?	Shipping quilts with wraps and shipping boots	Tack	HIH 1160-3
	A horse's "father" is called its what?	Sire	Intro	ES 23
	What breed name is represented by the initials POA?	Pony of the Americas	Intro	HIH 167B-1
	What viral disease that affects the central nervous system is a serious concern because there is no treatment and it is almost always fatal?	Rabies	Dis	HIH 680-1
	What are the three elements most commonly present in fertilizer?	nitrogen; phosphorus; potassium (potash)	Nutr	HIH 730-7
	What is the difference between a sign and a symptom of a disease?	signs can be measured (or symptoms are subjective/signs are objective)	Health	ES 166
	What face marking is characterized by a completely or almost completely white face and muzzle?	Bald face	Intro	HIH 140-2, TH 82
	Why should a horse's diet be changed gradually over time?	avoid digestive upset/colic	Nutr	HIH 710-6
	What farrier tool is used to remove the surplus growth of the hoof wall?	Hoof nippers	Foot	HIH 530-1
	What is the name for a mature female horse?	Mare	Intro	HIH 110-5, ES 23
	What equine sport, known as the "game of kings", utilizes a mallet and ball?	Polo	Intro	HIH 182D-1

Junior High Division

Tie Breaker and Replacement Questions Set 3

Q#	Question	Answer	Cat	Ref
	Under normal conditions how does the horse cool itself?	By sweating	Health	HIH 410-1
	What is the most common method of estimating a horse's body weight?	Using a heart girth tape (weight tape)	Nutr	HIH 710-3
	Evaluating the width of the chest can best be accomplished from what view?	The front of the horse	Select	HIH 220-1
	What is the most common legume hay fed to horses?	Alfalfa	Nutr	HIH 760-2
	What is the term for an intact immature male horse?	Colt	Intro	HIH 110-5
	Equine infectious anemia may also infect what two near relatives of the horse?	Donkeys, mules	Dis	HIH 630-1
	What respiration rate indicates heat exhaustion is occurring in a resting horse?	More than 30 breaths per minute	Health	HIH 410-1
	What is the common number of permanent teeth for a stallion?	40 (or 42 if including wolf teeth)	Select	HIH 240-3
	How far from drinking water wells should manure storage sites be located?	100 ft.	Facil	HIH 360-2
	Name three areas where muscling in the horse can be observed?	1. Arm, 2. Forearm, 3. Shoulder, 4. Stifle, 5. Gaskin, 6. Pectoral Area 7. Rear Quarters	Select	HIH 220-7
	Tetanus is also commonly known as what?	Lockjaw	Dis	HIH 645-1; TH 601
	What disease do the initials PHF stand for?	Potomac Horse Fever	Dis	HIH 650-1
	What white leg marking extends from the coronary band to the knee of the horse?	Stocking	Intro	HIH 140-2, TH 83
	What does the term tachycardia mean?	rapid heart rate	Health	TH 594
	What piece of equipment does a farrier use for leg protection?	Horseshoing Apron	Foot	HIH 530-1
	How is equine infectious anemia spread between horses?	Transfer of blood (biting insects, surgical equipment, needles, etc.)	Dis	HIH 630-1
	What body measurement is a "weight tape" based on?	Heart girth	Nutr	HIH 720-1
	What are the two basic classifications of forages?	Grasses and Legumes	Nutr	HIH 760-1
	What do the initials BMP stand for, with regard to water quality management?	Best Management Practice(s)	Facil	HIH 360-1
	How is equine influenza transmitted from one horse to another?	aerosol droplets (or respiration, etc.)	Dis	HIH 605-1

Junior High Division

Tie Breaker and Replacement Questions Set 4

Q#	Question	Answer	Cat	Ref
	What Irish breed of ponies is known for its jumping ability?	Connemara	Intro	TH 65
	The very top of the horses head is called the what?	the poll	Select	HIH 220-3
	Name another type of saddle besides the decker or crossbuck that can be used as a pack saddle.	Stock saddle or McCellan saddle	Tack	HIH 1125-1
	A horse's age may be determined by inspecting what?	Teeth	Health	HIH 405-1
	What general portion of the horse's digestive tract contains the cecum, large colon, small colon and rectum?	Hindgut	Nutr	ES 112; HIH 710-2
	What is the largest non-formal youth development organization in the United States?	4-H	Intro	HIH 190D-1
	How long do incisors and cheek teeth continue to erupt?	Until the horse is in its early 20's.	Health	HIH 405-3
	What is the name of the registry for horses of Pinto coloration and stock-type breeding?	American Paint Horse Association	Intro	HIH 163B-1
	What is the most important factor affecting the quality of a forage?	Stage of maturity at time of harvest	Nutr	HIH 760-4
	What are the two main types of adult Strongyles?	large and small	Health	ES 188; HIH 430-1
	To prevent muddy conditions and erosion when designing a facility, what percent slope should the site should have?	2 to 6 percent	Facil	HIH 320-2
	When do the center permanent incisors erupt?	2 1/2 years	Select	HIH 240-2
	What is generally recommended, and sometimes required by law, that owners do with Coggins positive horses?	Euthanization	Dis	HIH 630-2
	What are the "building blocks" of protein?	Amino acids	Nutr	ES 117; HIH 760-7
	What is the term for an immature female horse?	Filly	Intro	HIH 110-5
	What is known as nature's "hoof conditioner"?	Water	Foot	HIH 505-7
	For how long does the horses foot increase in size?	Until it is full grown or at 5-6 years of age.	Foot	HIH 525-4
	Approximately how long is the small intestine of an average horse?	70 feet	Nutr	ES 111; HIH 710-2
	In a 24 hour period an adult horse will ordinarily produce how many pounds of fecal material?	28-50 pounds, or 40-50 pounds	Health	ES 114; HIH 425-2 or 360-2
	At what age in a nursing foal's life will nutrient requirements exceed those provided by the dams milk?	Within two months of foaling	Nutr	HIH 781-1

Junior High Division

Tie Breaker and Replacement Questions Set 5

Q#	Question	Answer	Cat	Ref
	What type of amino acids cannot be synthesized in the horse's digestive system and must be supplied in the diet?	essential	Nutr	ES 118
	What color pattern name is used to describe horses with both overo and tobiano characteristics?	Tovero	Intro	HIH 163B-1
	What is the most accurate method to assess the nutrient content of hay?	Chemical analysis	Nutr	HIH 750-5
	Man originally used horses for what purpose?	Food source	Intro	ES 12, TH 5
	What white leg marking extends from the coronary band to the bottom of the fetlock?	Pastern	Intro	HIH 140-2, TH 83
	What is the recommended minimum width for a stall door?	4 feet	Facil	HIH 320-6
	The walk is a ____ beat gait.	4	Intro	ES 70
	What is the normal body temperature for an adult horse?	99 - 101 degrees Fahrenheit	Health	ES 155; TH 594
	What are the two most important energy-producing nutrients in equine diets?	carbohydrates and fats	Nutr	ES 143
	What is the name for the headpiece that is used for controlling the horse for riding or driving?	Bridle	Intro	HIH 110-5
	Why should shavings from black walnut trees not be used for stall bedding?	Black walnut shavings can cause horses to develop laminitis and founder.	Facil	HIH 330-1
	Name one parasite that is transmitted to healthy horses through contact with infected horses, blankets, or grooming equipment.	Mites (mange mites) or lice	Health	ES 186, 187; HIH 415-9
	What part of the horse shoe contains the nail holes?	Crease (Fullering)	Foot	HIH 515-1
	The American Miniature Horse must not exceed what height?	34 inches	Intro	HIH 160B-1, TH 67
	What organ is affected by equine encephalomyelitis?	Brain	Dis	HIH 625-1
	When do deciduous corner incisors erupt?	6 to 9 months	Health	HIH 405-1
	A tool used to open nail holes to better accommodate a horseshoe nail	Pritchel	Foot	HIH 530-4
	Age determination is most accurate before a horse reaches approximately what age?	10 to 14 years	Select	HIH 240-1
	Fossil evidence shows that members of the horse family existed how long ago?	60 million years	Intro	ES 5, TH 3
	How many Calories in one Megacalorie?	1000 calories	Nutr	HIH 790-1

Bonus Questions- Jr. High

- Q. What are the seven types of Western Saddles?
A. Pleasure/Trail; Endurance; Western Pleasure/Equitation (Show); Reining; Barrel Racing/game (gymkana); Roping; Cutting
- Q. Name three characteristics of good quality hay.
A. Early stage of maturity; relatively fine stems; lots of leaves; green color; free of excess weeds; free of blister beetles; free of dust and mold
- Q. When evaluating the severity of colic, what are three of the vital and physical signs that are considered?
A. Heart rate; Color of gums and conjunctiva (mucous membranes); Intestinal motility; Blood count; Pain; Respiratory rate
- Q. Name three conditions that could cause a horse to suffer a heatstroke.
A. Prolonged hard or fast work during hot weather; prolonged exposure to direct sunlight without shade; poor conditioning; horses with long hair coats
- Q. Name the three types of Western reins.
A. Open or split; Closed; "California" or "Romal" reins; Roping reins
- Q. Name four macro minerals.
A. Calcium; phosphorus; magnesium; sodium; chloride; potassium; sulfur
- Q. Name four clinical signs of West Nile Virus.
A. loss of appetite; depression; fever; weakness of hind limbs; paralysis; impaired vision; ataxia; head pressing; head tilt; aimless wandering; convulsions; inability to swallow; circling; hyperexcitability; coma; facial paralysis; death
- Q. Name four grains fed to horses
A. Oats; corn; barley; grain sorghum or milo; wheat; triticale
- Q. Name three of the four breeds that contributed to the development of the Tennessee Walking Horse.
A. Thoroughbred, Standardbred, Morgan, American Saddlebred
- Q. Describe three characteristics of a horse with a body condition score of 9.
A. Obvious crease down back; patchy fat over the ribs; bulging fat around tailhead, along withers, behind shoulders, and along neck; fat along inner thighs may rub together; flank filled with fat
- Q. Give four basic steps in evaluating conformation
A. Tracking the horse; View the horse from the profile; View the rear of the horse; View the front of the horse
- Q. What are two major problems associated with having wooden stall floors?
A. Slippery when wet; Creates environment for urine to accumulate; Attracts rodents
- Q. What are the steps in removing a worn shoe?
A. Open or cut the clinches; Insert the jaws of the pull offs under one heel of the shoe; Close the jaws of the pull offs and pull down toward the toe and in toward the center of the foot; Work the pull offs gradually toward the toe
- Q. Name four clinical signs of colic.
A. switching tail; looking at belly; kicking; rolling; pawing; repeatedly lying down and getting up; sweating; urinating and defecating frequently; anxiety; rapid ear movement; restlessness; lying on back; sitting like dog; saw-horse posture
- Q. Name three clinical signs of equine infectious anemia.
A. fever; anemia; jaundice; depression; edema; chronic weight loss; decreased appetite; enlarged spleen; unthriftiness; lack of stamina
- Q. Describe three characteristics of a horse with a body condition score of 5.
A. Back is flat; ribs not visually distinguishable but easily felt; fat around tail head beginning to feel spongy; withers appear rounded; shoulders and neck blend smoothly into body
- Q. List three forms of harvested forage.
A. Small square hay bales; large round or rectangular hay bales; hay cubes; chopped hay; pelleted hay; dehydrated forage; silage; haylage

Bonus Questions- Jr. High

- Q. Name three factors that influence horseshoe size
A. Length of shoe heels; position of shoe nail hole; web or width; nail hole size; nail hole position.
- Q. Give four signs of possible dental abnormalities.
A. Slobbering; Head tilt; Bad odor from mouth; Difficulty chewing; Head-tossing; Bit-chewing; Tongue-lolling; Tail wringing; Bucking; Changes in performance; Weight loss; Dropping feed; Fighting the bit
- Q. Name three factors that affect a horse's balance in stance and gait.
A. Conformation; gait; speed; level of training; hoof length; shoe weight; head position and weight; rider's skill and weight; load being pulled
- Q. Name three functions of the horse's foot.
A. Support weight; resist wear; replenish itself; Absorb shock; provide traction; conduct moisture; assist in pumping blood.
- Q. Name the three most common strains of equine encephalomyelitis (encephalitis).
A. Eastern, Western, Venezuelan
- Q. Name three signs of heatstroke in horses.
A. Rapid breathing; Weakness; Uncoordination; Refusal to work; Elevated body temperature; Stops sweating; Skin dries; Delirium; Convulsions
- Q. Name four types of flies.
A. House; stable; horn; face; horse; deer; black (buffalo gnats)
- Q. Name four feedstuffs used as protein supplements or high-protein sources.
A. Soybean meal; cottonseed meal; peanut meal; linseed meal; milk protein; fish meal; canola meal; corn gluten meal; sunflower meal; brewer's yeast; rice bran; egg protein; bone or blood meal
- Q. Name four of the five classifications of wounds.
A. abrasion; incision; laceration; puncture; avulsion
- Q. Name three materials most commonly used in the construction of barns.
A. Steel; aluminum; wood; concrete
- Q. Describe how capillary refill time is evaluated.
A. Press thumb against gum for a couple of seconds, release, and evaluate length of time for color to return to normal
- Q. Name three factors that can cause laminitis.
A. grain overload; retained placenta; obesity; black walnut shavings; lush grass; excessive concussion; insulin resistance; illness or infection
- Q. List three treatments for Potomac Horse Fever.
A. oxytetracycline (tetracycline); intravenous fluids; anti-inflammatory drugs; treatment for laminitis
- Q. Describe the two sections that divide Welsh Ponies. Include the section name and size requirements.
A. Section A (Welsh Mountain Pony) not to exceed 12.2 hands, Section B (Welsh Pony) 12.3 to 14.2
- Q. Name 3 factors that may cause temperature variation in an individual horse.
A. Time of day; age; sex; ambient temperature; wind; precipitation; level & intensity of activity; disease
- Q. Name three purposes served by bandaging a wound.
A. Immobilizes region to aid healing; Keeps the wound clean; Prevents infection; Prevents further trauma; Pressure reduces swelling and controls hemorrhage (bleeding)
- Q. Exactly where are sharp enamel points found?
A. On the outside of the upper cheek teeth and on the inside of the lower cheek teeth
- Q. Name three methods of a successful fly control program.
A. Elimination of breeding materials; Control of moisture; Mechanical control; Appropriate use of insecticides
- Q. Name three major uses of horses throughout history.
A. Food, Transportation, Work, Food, War, Recreation, Companionship
- Q. Name four qualities that should be considered when choosing a type of stall bedding to use.
A. Availability and price; Absorptive capacity; Ease of handling; Ease of clean-up and disposal; Non-irritability from dust or allergens; Texture and size; Fertility value of the resulting manure

Bonus Questions- Jr. High

- Q. What parts of the leg should leg wraps cover in order to protect horses' legs from trailer injuries?
A. From the knee or hock downward, including the coronary band
- Q. Name three elastic structures of the foot
A. Digital cushion; coronary cushion; lateral cartilages
- Q. What are two behaviors shown by horses that are not getting adequate amounts of long-stemmed roughage?
A. Chewing wood; Eating bedding; Eating manure (coprophagy); Chewing manes and tails of other horses
- Q. Nutritionists divide horses into four classes depending upon their status of life. Name three of these classes.
A. Mature idle horses; Producing; Growing; Working
- Q. What are three major qualities that should be considered when designing horse fencing.
A. Safety; Efficiency; Cost; Aesthetics
- Q. List four common diseases or problems of older horses
A. Heaves (chronic obstructive pulmonary disease); Arthritis; Liver problems; Kidney problems; Cushing's Syndrome (pituitary tumor); Thyroid tumor
- Q. Name two legumes other than alfalfa that are commonly fed to horses.
A. Birdsfoot Trefoil; Red Clover; White Clover; Lespedeza
- Q. Name four types of cool-season grasses used for horses.
A. Orchardgrass; timothy; bluegrass; fescue; bromegrass; canarygrass; redtop
- Q. Name three factors that affect soil erosion.
A. Soil type; Slope of land; Amount of rain or snowfall; Vegetative cover
- Q. Name four types of fencing material suitable for horses
A. Wooden Board; Post-and-Rail; Diamond V-Mesh Wire; High-Tensile Wire; PVC; Electric; Twisted Barbless Wire; Chain Link; Pipe and Cable; Rubber; Plastic; Vinyl
- Q. Name three things that influence selection of horseshoe style.
A. Type of work; Terrain; Integrity of horse's foot; size and weight of horse; Variety of ground surfaces available.
- Q. Housing for horses should accomplish several functions. Name three.
A. Provide for welfare of the horses; Provide for the safety, health and comfort of human handlers; Make efficient use of labor; Be cost-effective.
- Q. What are three physical results accomplished by the processing of food by chewing?
A. Cracks outer shell of grains; Reduces particle size of feeds; Increases the surface area of particles
- Q. Name two signs of navicular disease.
A. Pointing toe with heel off ground; contracted heel; shorter steps; lameness before and after exercise
- Q. Name three types of legumes
A. Alfalfa; red clover; white clover; ladino clover; birdsfoot trefoil; lespedeza; alsike clover
- Q. List five items that should be included in a basic first-aid kit
A. Antiseptic cleansing agent; antiseptic ointment; adhesive bandages; disposable bandages; sterile non-stick dressings; cotton; blunt-ended scissors; electric clipper; poultice; thermometer; leg quilts and wraps
- Q. Name five characteristics of the ideally fitted shoe, regardless of design.
A. Distribute weight evenly; Be stable on the hoof; Have the maximum bearing surface on the wall; Retain traction; Protect the sole; Fit full and long; Be boxed (beveled) from the hoof surface and safed (beveled) from the ground
- Q. List three clinical signs of acute laminitis.
A. "bounding" digital pulse; warmer than normal feet; camped-out stance; abnormal gait (lameness); lying down unexpectedly; fever; colic; chills; sweating; diarrhea; fast pulse; rapid breathing
- Q. What are three types of English reins?
A. Plain; Laced; Web; Rubber