

HIPPOLOGY BOARD GAME

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Tennessee 4-H Youth Development

Hippology Board Game

Developed by Sarah Keenan, UT Extension Agent, Maury County

Purpose

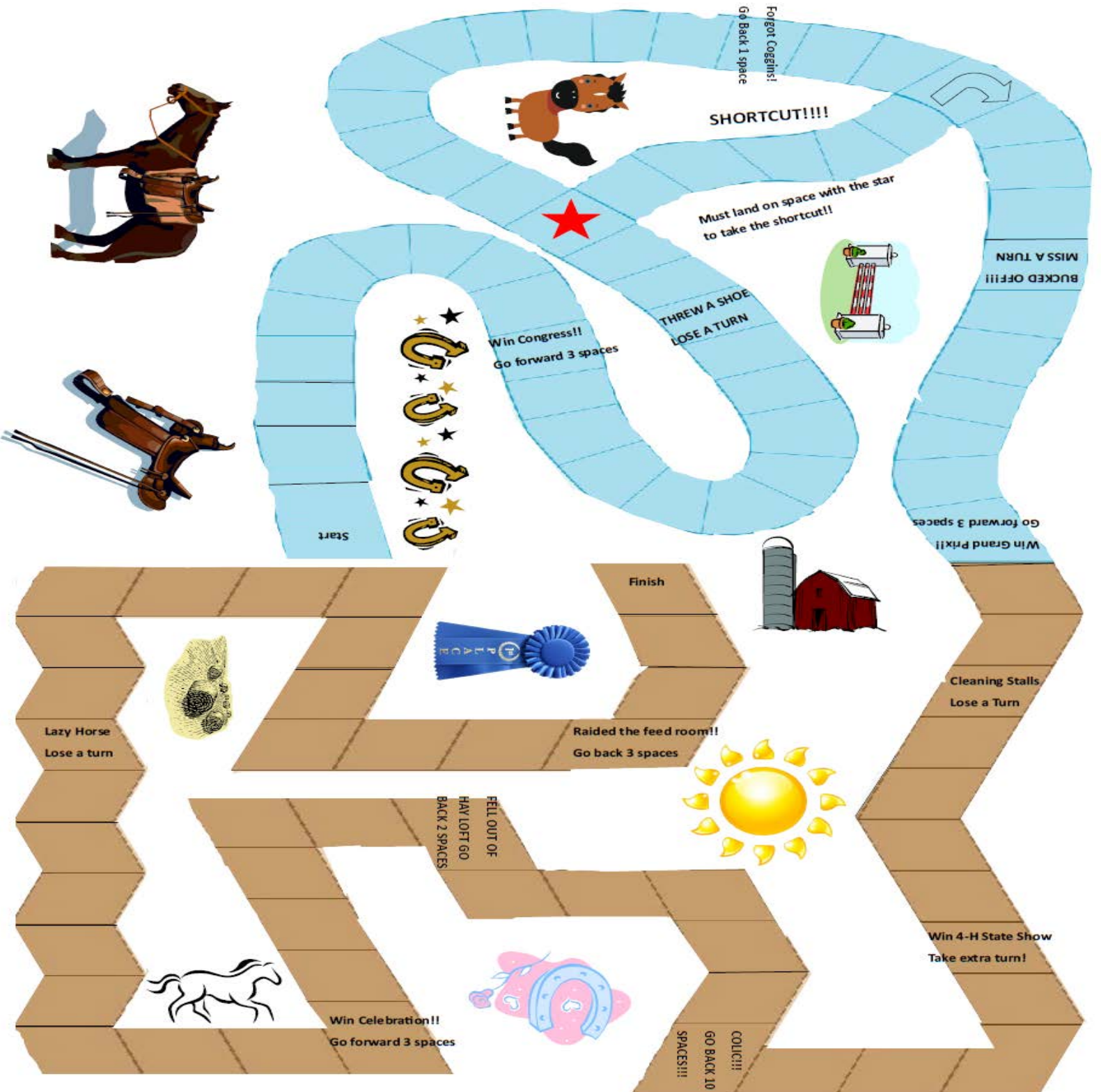
To prepare Junior, Junior High, and Senior 4-H Members for Hippology competitions.

How to Play:

1. Pick up a card, read the question and answer. The correct answers are on the back of the card. The questions are divided into Junior/Junior High Questions and Senior High Questions.
2. If correct, pick up two dice. Roll the dice, and move your game piece the number of spaces on the dice. If you answered your question incorrectly, your turn is over for this round.
3. In order to take the shortcut, you must land on the space with the star. On your next turn, you may then use the shortcut.
4. The first person to reach the end is the winner!

*When printing the board, consider printing it on a poster, or on two pieces of letter-sized paper.

Supplemental Material



Hippology Boardgame

Junior/Junior High Question Set

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<p>Thickening caused by inflammation of a flexor tendon is commonly called a _____ and occurs most frequently in the superficial digital flexor tendon.</p> <p>A. splint B. curb C. bog spavin D. bowed tendon</p>	<p>D</p>
<p>What forage contains a fungal endophyte that causes reproduction problems in mares?</p> <p>A. Alfalfa B. Kobe Lespedeza C. Red Clover D. Tall fescue</p>	<p>D</p>
<p>What type of pressure does a snaffle bit apply?</p> <p>A. Direct pressure B. Leverage pressure C. Curb pressure D. Poll pressure</p>	<p>A</p>

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Junior/Junior High Question Set

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<p>True or False?</p> <p>Other than horses, birds and humans may also be affected by West Nile Virus.</p>	<p>True</p>
<p>Which of the following conditions would NOT be considered a blemish?</p> <ul style="list-style-type: none">A. Parrott mouthB. SplintC. Capped elbowD. Quarter crack	<p>A</p>
<p>What term is used to describe when the toe of the hind foot strikes the toe of the front foot while the horse is in motion?</p> <ul style="list-style-type: none">A. RackingB. StridingC. ForgingD. Pacing	<p>C</p>

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Junior/Junior High Question Set

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<p>What is equitation?</p> <ul style="list-style-type: none">A. The art of horseback riding.B. The rising and descending of the rider in the saddle at the trot.C. The equipment and clothing used when showing.D. The art of understanding the horse's needs.	<p>A</p>
<p>Which of the following is NOT a purpose of the saddle blanket/pad?</p> <ul style="list-style-type: none">A. To protect the horse's back.B. To absorb sweat and moisture.C. To protect the saddle.D. To provide decoration.	<p>D</p>
<p>What is another term for laminitis?</p> <ul style="list-style-type: none">A. RingboneB. CornsC. FounderD. Gravel	<p>C</p>

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Junior/Junior High Question Set

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<p>Which of the following will NOT affect a horse's nutrient requirements?</p> <ul style="list-style-type: none">A. Coat colorB. AgeC. EnvironmentD. Activity level	<p>A</p>
<p>What is the MOST important factor affecting the nutrient composition of grasses and legumes?</p> <ul style="list-style-type: none">A. Soil typeB. ClimateC. Stage of maturityD. Weather	<p>C</p>
<p>Which of the following management practices would NOT be part of a parasite management program?</p> <ul style="list-style-type: none">A. Rotate pastures frequently.B. Dragging pastures during the warm months.C. Prevent overcrowding on pastures.D. Water horses using a watering hole or pond.	<p>D</p>

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<p>What is the angle of incidence?</p> <ul style="list-style-type: none">A. The angle of the horse's shoulder.B. The angle formed where the upper and lower incisors meet.C. The angle of the horse's pasterns.D. The angle of the horse's hip.	<p>B</p>
<p>The correct equine vertebral formula is:</p> <ul style="list-style-type: none">A. C7 T18 L6 S5 Ca15-21B. C7 T18 L9 S5 Ca15-21C. C7 T18 L6 S8 Ca15-21D. C7 T13 L6 S5 Ca15-21	<p>A</p>
<p>A _____ is a white patch between the nostrils.</p> <ul style="list-style-type: none">A. bald faceB. starC. stripeD. snip	<p>D</p>

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<p>A strip of color down the center of a dun's back is called a _____ stripe.</p>	<p>Dorsal</p>
<p>What piece of tack is used to keep Western saddles from sliding backwards or sideways?</p> <ul style="list-style-type: none">A. BreechingB. Breast collarC. CrupperD. Tie down	<p>B</p>
<p>What breed name is represented by the initials POA?</p> <ul style="list-style-type: none">A. Palominos of AmericaB. Paso Fino Owners AssociationC. Pony of the AmericasD. None of the above	<p>C</p>

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<p>Which of the following are flying insects that lay eggs in open wounds?</p> <ul style="list-style-type: none">A. LiceB. Blow fliesC. Face fliesD. Mites	<p>B</p>
<p>Two types of these (biting and sucking) infect horses.</p>	<p>Lice</p>
<p>A noseband on a bridle or a stiff noseband on a halter used with long strap in training is called a _____.</p> <ul style="list-style-type: none">A. CoronaB. FenderC. BosalD. Cavesson	<p>D</p>

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Junior/Junior High Question Set

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<p>What is the conformation term for a horse that has too much angulation in the hocks, when viewed from the side?</p> <ul style="list-style-type: none">A. Cow-hockedB. Post-leggedC. Sickle-hockedD. Splay-footed	<p>C</p>
<p>What is a flying insect that feeds on skin, nasal, and eye secretions and do NOT bite?</p> <ul style="list-style-type: none">A. LiceB. Face fliesC. MitesD. Ticks	<p>B</p>
<p>What is a saddle pad that is cut to fit the shape of the saddle and has a large colorful roll around the edge called?</p> <ul style="list-style-type: none">A. CoronaB. BosalC. CavessonD. Fiadore	<p>A</p>

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<p>True or False?</p> <p>Rotational grazing is one of the best ways to help get manure concentration in isolated spots in a pasture.</p>	<p>False</p>
<p>True or False?</p> <p>Stage of maturity is indicated by the amount of seed heads and flowers present in grass or legume hay.</p>	<p>True</p>
<p>True or False?</p> <p>The disease Eastern Equine Encephalitis has a pattern of incidence geographically associated with rivers.</p>	<p>False</p>

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<p>True or False?</p> <p>It is generally recommended, and in some cases required, that horses with Equine Infectious Anemia be euthanized.</p>	<p>True</p>
<p>What is a poultice?</p> <p>A. A type of infection that affects the horse's heart.</p> <p>B. A drawing pack used under a bandage to help remove fluid or swelling from an area.</p> <p>C. A skin condition.</p> <p>D. A blemish.</p>	<p>B</p>
<p>True or False?</p> <p>Overgrazing is the primary cause of runoff on horse farms.</p>	<p>True</p>

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<p>Once infected, how long does a horse remain infected with Equine Infectious Anemia?</p> <ul style="list-style-type: none">A. Six months to a year.B. Rest of the horse's life.C. Until treatment is complete.D. Until it reaches two years of age.	<p>B</p>
<p>What is the name of the groove on the horse's upper incisors that can be used to tell a horse's age from 10-30 years?</p> <ul style="list-style-type: none">A. Cantanda's grooveB. Galvayne's grooveC. Tuberosity grooveD. Sudden's groove	<p>B</p>
<p>P in the dental formula stands for what?</p> <ul style="list-style-type: none">A. post incisorB. premature canineC. premolarD. pre incisor	<p>C</p>

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<p>What is the tool used to clean out the bottom of the horse's foot?</p> <ul style="list-style-type: none">A. Hoof nipperB. Hoof pickC. PritchelD. Rasp	<p>B</p>
<p>What part of the English bridle fits around the horse's forehead, between the ears and eyes?</p> <ul style="list-style-type: none">A. BrowbandB. Crown pieceC. CavessonD. Noseband	<p>A</p>
<p>Which of the following is not a joint of the front limb?</p> <ul style="list-style-type: none">A. carpusB. pasternC. coffinD. hock	<p>D</p>

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<p>The part of the Western saddle that is located directly behind the rider's rear is called what?</p> <ul style="list-style-type: none">A. CantleB. Buck rollC. Seat jockeyD. Fender	<p>A</p>
<p>Why can a horse's teeth only offer an "estimate" of age?</p> <ul style="list-style-type: none">A. environmental conditionsB. breed differencesC. horses lose teeth too oftenD. genetic conditions may impede tooth growth	<p>A</p>
<p>What is the name of the blemish caused by thickening of the plantar ligament?</p> <ul style="list-style-type: none">A. curbB. wind gallC. windpuffsD. bursitis	<p>A</p>

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<p>What are the wide pieces of leather along the stirrup leathers on a saddle called?</p> <ul style="list-style-type: none">A. FiadoreB. FendersC. CavessonD. Corona	<p>B</p>
<p>Which type of bit uses a curb chain?</p> <ul style="list-style-type: none">A. 3 Ring ElevatorB. Eggbutt SnaffleC. PelhamD. Full Cheek Snaffle	<p>C</p>
<p>Which side of the heart has a thicker wall and why?</p> <ul style="list-style-type: none">A. Left because there is more room in the cavity for growth.B. Left because it must supply force to move blood through systematic circulation.C. Right because it must supply force to move blood through systematic circulation.D. Right because the cardiac notch in the lung provides excellent oxygenation of the tissue.	<p>B</p>

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<p>Poisoning by Japanese yew will cause:</p> <ul style="list-style-type: none">A. Liver cirrhosisB. Hemolytic anemiaC. PhotosensitizationD. Nervous system damage	<p>D</p>
<p>The head consists of 34 irregularly shaped flat bones. What type of joints are in the cranium?</p> <ul style="list-style-type: none">A. ImmovableB. GlideC. PermanentD. Flexible	<p>A</p>
<p>Which of the following does not describe an animal in the order perissodactyla:</p> <ul style="list-style-type: none">A. odd toedB. non-ruminatingC. hoofedD. even toed	<p>D</p>

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<p>How are horses infected with strongyloides?</p> <ul style="list-style-type: none">A. mare's milkB. grassC. fecesD. contaminated water	<p>A</p>
<p>Name the condition found in growing foals whose joint cartilage does not properly differentiate.</p> <ul style="list-style-type: none">A. osteochondrosis dissecans (OCD)B. splintsC. osteitisD. ting bone	<p>A</p>
<p>The Thoroughbred Stallion Three Bars has produced many:</p> <ul style="list-style-type: none">A. eventing championsB. hunter-jumper championsC. racing Quarter HorsesD. dressage champions	<p>C</p>

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<p>What Native American tribe spread Spanish horses over the West?</p> <p>A. Navajo B. Nez Perce C. Cherokee D. Apache</p>	<p>D</p>
<p>The blind pouch between the small intestine and large intestine is called the _____.</p> <p>A. Rectum B. Colon C. Cecum D. Pancreas</p>	<p>C</p>
<p>Soybean meal contains approximately _____ protein:</p> <p>A. 20% B. 30% C. 45% D. 60%</p>	<p>C</p>

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<p>On what forage do blister beetles feed?</p> <ul style="list-style-type: none">A. TimothyB. Red cloverC. LespedezaD. Alfalfa	<p>D</p>
<p>What is the main site for nutrient absorption in the horse?</p> <ul style="list-style-type: none">A. Small intestineB. StomachC. CecumD. Large intestine	<p>A</p>
<p>What is the term for horses whose toes point inward, also known as toes in?</p> <ul style="list-style-type: none">A. Splay footedB. Pigeon footedC. Sickle footedD. Cow hocked	<p>B</p>

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<p>What is the liquid that moistens food during chewing called?</p> <ul style="list-style-type: none">A. ChimeB. SalivaC. BileD. Bran	<p>B</p>
<p>The average height of this breed is only 11.2 hands.</p> <ul style="list-style-type: none">A. MorganB. ShetlandC. AndalusianD. Welsh pony	<p>B</p>
<p>This breed is noted for its appearance resembling a newly minted gold coin.</p> <ul style="list-style-type: none">A. PintoB. PaintC. PalominoD. Arabian	<p>C</p>

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<p>Which breed of horse is from the Middle East and has been bred and selected for over 2000 years?</p> <ul style="list-style-type: none">A. Quarter HorseB. MorganC. Paso FinoD. Arabian	<p>D</p>
<p>This breed traces back to Black Hand and was developed to produce an in between size, western type pony.</p> <ul style="list-style-type: none">A. Pony of the AmericansB. AppaloosaC. PalominoD. Shetland	<p>A</p>
<p>This breed originated in the American South, and they naturally overstride when performing the running walk.</p> <ul style="list-style-type: none">A. Quarter HorseB. Tennessee Walking HorseC. Pony of the AmericansD. Andalusian	<p>B</p>

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<p>This breed is made up of Columbian and Puerto Rican breeding which performs a smooth, four beat, lateral gait.</p> <ul style="list-style-type: none">A. MorganB. Paso FinoC. AndalusianD. Standardbred	<p>B</p>
<p>This breed was developed by Indians of the American Northwest.</p> <ul style="list-style-type: none">A. PaintB. AppaloosaC. PintoD. Palomino	<p>C</p>
<p>True or False?</p> <p>When done correctly, the canter is a four beat gait.</p>	<p>False</p>

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<p>This breed was started by registering horses that could trot or pace a mile in a set amount of time.</p> <ul style="list-style-type: none">A. American SaddlebredB. MorganC. PaintD. Standardbred	<p>D</p>
<p>A respiratory ailment characterized by forced breathing is _____.</p> <ul style="list-style-type: none">A. HeparinB. HeavesC. HyperthermiaD. Hot walker	<p>B</p>
<p>A headpiece used for leading the horse is called a _____.</p> <ul style="list-style-type: none">A. HamstringB. HobbleC. HalterD. Humerus	<p>C</p>

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<p>What is the name of the cartilaginous flap that covers the trachea during swallowing?</p> <ul style="list-style-type: none">A. larynxB. pharynxC. epiglottisD. arytenoid	<p>C</p>
<p>What breed of horse is commonly used in harness racing?</p> <ul style="list-style-type: none">A. HolsteinerB. ThoroughbredC. SaddlebredD. Standardbred	<p>D</p>
<p>The circular pattern or ring-shaped pattern in the horse's coat is called _____.</p>	<p>Dapples</p>

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<p>What is the most common protein source in feeds for horses?</p> <ul style="list-style-type: none">A. Beet pulpB. Fish mealC. Soybean mealD. Trace mineral salt	<p>C</p>
<p>What piece of tack goes under the horse mid-section to secure the saddle?</p> <ul style="list-style-type: none">A. CinchB. MartingaleC. BilletD. Cavesson	<p>A</p>
<p>What is the purpose of adding shanks to the mouthpiece of a bit?</p> <ul style="list-style-type: none">A. To give direct pressureB. To create leverageC. To add weightD. To add decoration	<p>B</p>

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<p>A mature female horse, over 3 years of age, is known as a what?</p> <ul style="list-style-type: none">A. FillyB. GeldingC. MareD. Stallion	<p>C</p>
<p>To help a horse generate more body heat to stay warm in the winter, additional amounts of what type of feed should be provided?</p> <ul style="list-style-type: none">A. Sweet feedB. MineralC. GrainD. Hay	<p>D</p>
<p>The skeletal system of the horse functions as:</p> <ul style="list-style-type: none">A. levers, stores minerals, blood cell formationB. levers, protects organs, regulates sodium levelsC. provides framework for muscles, protects organs, and filters fluidD. stores minerals and releases hormones for growth	<p>A</p>

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<p>The male horse has 40-42 teeth and the female 36-38. Why is this fluctuation in numbers possible?</p> <ul style="list-style-type: none">A. difference in breedsB. caninesC. wolf teethD. inbreeding causing decrease in teeth	<p>B</p>
<p>What is the foot condition that is characterized by a black, strong-smelling infection of the frog?</p> <ul style="list-style-type: none">A. White line diseaseB. ThrushC. LaminitisD. Corns	<p>B</p>
<p>What cereal grain has been the preferred grain of horseman for many years?</p> <ul style="list-style-type: none">A. OatsB. CornC. WheatD. Alfalfa	<p>A</p>

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<p>When referring to color, the mane, tail, lower leg, and ear rims are called _____.</p> <ul style="list-style-type: none">A. DapplesB. StockingsC. TipsD. Points	<p>D</p>
<p>A white marking on the muzzle is called a _____.</p>	<p>Snip</p>
<p>Where does fiber digestion take place in horses?</p> <ul style="list-style-type: none">A. KidneyB. LiverC. StomachD. Large intestine	<p>D</p>

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<p>What is a viral disease that can be transmitted from an infected horse to a human by a mosquito?</p> <p>A. Tetanus B. West Nile C. Rabies D. Encephalomyelitis</p>	<p>D</p>
<p>What is the maximum number of teeth a male horse can have?</p> <p>A. 42 B. 32 C. 36 D. 24</p>	<p>A</p>
<p>Which is a three beat gait?</p> <p>A. Walk B. Trot C. Pace D. Canter</p>	<p>D</p>

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<p>Which of the following are signs of a dental problem?</p> <ul style="list-style-type: none">A. Dropping feedB. Avoiding bit contactC. Weight lossD. All of the above	<p>D</p>
<p>The topline of a horse can be described as what?</p> <ul style="list-style-type: none">A. Area between the withers and tailheadB. Area between the poll and tailheadC. Area between the poll and witherD. Area between the loin and tailhead	<p>B</p>
<p>What structures attach the hoof wall to the coffin bone?</p> <ul style="list-style-type: none">A. LaminaeB. FrogC. Coronary BandD. None of the above	<p>A</p>

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<p>An extension backward of the flexor tendon caused by tearing or stretching is known as what?</p> <ul style="list-style-type: none">A. Bowed tendonB. Bog spavinC. SplintD. Navicular	<p>A</p>
<p>Which feedstuff is highest in fiber?</p> <ul style="list-style-type: none">A. Grass hayB. CornC. OatsD. Barley	<p>A</p>
<p>What is the normal body temperature range of the average mature horse?</p> <ul style="list-style-type: none">A. 96.5 to 98.5 degreesB. 99 to 101 degreesC. 102 to 104 degreesD. 105 to 107 degrees	<p>B</p>

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<p>Which internal parasite commonly causes tail rubbing in horses?</p> <ul style="list-style-type: none">A. PinwormsB. ThreadwormsC. RoundwormsD. Tapeworms	<p>A</p>
<p>Toe calks, heel calks, and borium can be added to the horseshoe to increase what?</p> <ul style="list-style-type: none">A. Knee actionB. Length of strideC. TractionD. Sliding ability	<p>C</p>
<p>Which of the following is a factor that can affect hoof growth?</p> <ul style="list-style-type: none">A. Hind foot versus front hoofB. NutritionC. ExerciseD. All of the above	<p>D</p>

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<p>An injury to the sole of the foot caused by concussion is called a what?</p> <ul style="list-style-type: none">A. LaminitisB. ThrushC. Quarter crackD. Sole bruise	<p>D</p>
<p>What is the most essential nutrient?</p> <ul style="list-style-type: none">A. WaterB. HayC. ProteinD. Carbohydrates	<p>A</p>
<p>What is the maximum amount of a grain based feed a horse should be fed in a single meal?</p> <ul style="list-style-type: none">A. 1 lbB. 5 lbC. 15 lbD. 20 lb	<p>B</p>

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<p>Which of the following muscles is located on the front end of the horse?</p> <ul style="list-style-type: none">A. ButtockB. GaskinC. ForearmD. Thigh	<p>C</p>
<p>A special knot on a hackamore is referred to as a _____.</p> <ul style="list-style-type: none">A. FiadoreB. CoronaC. BosalD. Cavesson	<p>A</p>
<p>What disease is spread by hitting insects; detected by the Coggins Test?</p> <ul style="list-style-type: none">A. EEEB. Potomic Horse FeverC. Equine Infectious AnemiaD. Pneumonia	<p>C</p>

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<p>What is a highly infectious disease caused by bacteria which is spread by direct and indirect contact through infected nasal discharge?</p> <ul style="list-style-type: none">A. StranglesB. TetanusC. EEED. Rhinophneumonitis	<p style="text-align: center;">A</p>
<p>What disease is usually acquired by the bacteria entering the wounds?</p> <ul style="list-style-type: none">A. InfluenzaB. TetanusC. LeptospirosisD. Lyme Disease	<p style="text-align: center;">B</p>
<p>The word "bactericidal" means:</p> <ul style="list-style-type: none">A. able to kill bacteriaB. able to stop the growth of bacteriaC. able to multiply bacteriaD. able to identify bacteria	<p style="text-align: center;">A</p>

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<p>This is a warm-season grass:</p> <ul style="list-style-type: none">A. bluegrassB. fescueC. bermudagrassD. timothy	<p>C</p>
<p>What is the name of the Australian wild horse?</p> <ul style="list-style-type: none">A. BambiB. BrumbyC. Australian mustangsD. Aborigines	<p>B</p>
<p>The cannon bone is also known as the</p> <ul style="list-style-type: none">A. second metacarpalB. third metacarpalC. fourth metacarpalD. third metatarsal	<p>B</p>

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<p>The coffin bone is also known as the</p> <ul style="list-style-type: none">A. middle phalanxB. first phalanxC. distal sesamoidD. third phalanx	<p>D</p>
<p>At rest, a horse's cardiac output is approximately:</p> <ul style="list-style-type: none">A. 35 liters/minB. 20 liters/minC. 10 liters/minD. 12.5 liters/min	<p>A</p>
<p>What is the horse's slowest gait?</p> <ul style="list-style-type: none">A. Paso cortoB. Slow gaitC. Fox trotD. Walk	<p>D</p>

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<p>Which gait is NOT a 4-beat gait?</p> <ul style="list-style-type: none">A. WalkB. BackC. RackD. Fox trot	<p>B</p>
<p>A horse's height is measured at what point?</p> <ul style="list-style-type: none">A. PollB. WithersC. BackD. Hip	<p>B</p>
<p>At what age do the center permanent incisor teeth erupt in a horse?</p> <ul style="list-style-type: none">A. 2 ½ yearsB. 3 ½ yearsC. 4 ½ yearsD. None of the above	<p>A</p>

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<p>What piece of equipment is designed to protect the hoof wall of a horse?</p> <ul style="list-style-type: none">A. Splint bootB. ShoeC. Skid bootD. Toe weight	<p>B</p>
<p>What is the term for the practice when a horse grasps an object with its incisors and attempts to swallow air?</p> <ul style="list-style-type: none">A. FounderB. ColicC. CribbingD. Roaring	<p>C</p>
<p>After digestion begins in the mouth, the food travels through this.</p> <ul style="list-style-type: none">A. CecumB. ChimeC. Small colonD. Esophagus	<p>D</p>

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Junior/Junior High Question Set

Supplemental Material

<p>What is the portion of the digestive tract where most of the carbohydrates (energy) is absorbed from food?</p> <ul style="list-style-type: none">A. Small intestineB. Large intestineC. StomachD. Esophagus	<p>A</p>
<p>What is the liquid from the liver which mixes with pancreatic juices and food in the small intestine called?</p> <ul style="list-style-type: none">A. ChymeB. SalivaC. BileD. Bran	<p>C</p>
<p>The radius combines with what bone to form the forearm?</p> <ul style="list-style-type: none">A. scapulaB. humerusC. ulnaD. knee	<p>C</p>

Hippology Boardgame

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<p>What is the common name for the outer coverings of grain?</p> <ul style="list-style-type: none">A. hullsB. shellsC. mealD. holes	<p>A</p>
<p>The hip joint is an example of a _____ joint.</p> <ul style="list-style-type: none">A. ball-and-socketB. hingeC. pivotD. plane	<p>A</p>
<p>Cross-firing is when:</p> <ul style="list-style-type: none">A. the forefoot on one side strikes the other forefootB. the hindfoot on one side strikes the other hindfootC. the hindfoot on one side strikes the forefoot on the same sideD. the hindfoot on one side strikes the diagonal forefoot	<p>D</p>

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<p>A chronic, purulent swelling of the lateral cartilage of the hoof, resulting in subcoronary abscesses is called:</p> <ul style="list-style-type: none">A. quittorB. spavinC. cornD. gravel	<p>A</p>
<p>Microbes in the hindgut ferment carbohydrates and the end products are:</p> <ul style="list-style-type: none">A. volatile fatty acidsB. amino acidsC. PSGAGsD. glycosaminoglycans	<p>A</p>

<p>The knot that makes the eye of a lariat which the rope is passed through to form a loop is called a _____.</p> <ul style="list-style-type: none">A. HackneyB. HondaC. HamstringD. Harrier	<p>B</p>
<p>Having to do with the liver is _____.</p> <ul style="list-style-type: none">A. HarrierB. HybridC. HumerusD. Hepatic	<p>D</p>
<p>In addition to the standard three gaits, many of the horses of this breed also perform the slow gait and rack.</p> <ul style="list-style-type: none">A. Paso FinoB. ArabianC. American SaddlebredD. Standardbred	<p>C</p>
<p>The _____ is caudal to the withers.</p> <ul style="list-style-type: none">A. pollB. carpusC. tarsusD. shoulder	<p>B</p>

<p>True or False?</p> <p>Heel and face flies feed on the horse by piercing its skin with their bayonet-like mouth parts.</p>	<p>False</p>
<p>A natural substance that prevents blood clotting is _____.</p> <p>A. Hepatic B. Heparin C. Harrier D. Hormone</p>	<p>B</p>
<p>A chemical substance produced in the body to influence a variety of body functions is _____.</p> <p>A. Heparin B. Hormone C. Hepatic D. Holstein</p>	<p>B</p>
<p>The metacarpophalangeal joint is also known as the:</p> <p>A. pastern joint B. coffin joint C. fetlock joint D. cubital joint</p>	<p>C</p>

<p>A bay horse with 2 cream dilution genes will be:</p> <ul style="list-style-type: none">A. cremelloB. brownC. buckskinD. perlino	<p>D</p>
<p>_____ refers to the procedure of cutting a palmar or plantar digital nerve to relieve pain.</p> <ul style="list-style-type: none">A. SweeneyB. BlockingC. NervingD. Desmotomy	<p>C</p>
<p>Hyperlipemia, which is high levels of fat in the blood, can be produced in healthy animals by:</p> <ul style="list-style-type: none">A. providing a meal rich in fat contentB. providing a meal high in carbohydratesC. withholding foodD. withholding water	<p>C</p>
<p>The longest muscle on the horse is called:</p> <ul style="list-style-type: none">A. latissimusB. omotransversariusC. longissimusD. sternomandibularis	<p>C</p>

<p>_____ is a term for muscle inflammation:</p> <ul style="list-style-type: none">A. endosytisB. myositisC. arthritisD. myelin	<p>B</p>
<p>Antebrachial fascia is found in the:</p> <ul style="list-style-type: none">A. forelimbB. hindlimbC. trunkD. sternum	<p>A</p>
<p>_____ are swellings of the palmar recess of the fetlock joint capsule, due to an excessive amount of synovial fluid produced by the synovial membrane of the fetlock joint:</p> <ul style="list-style-type: none">A. ergotsB. bone spavinsC. capped hocksD. wind puffs	<p>D</p>
<p>The first stage of parturition ends when:</p> <ul style="list-style-type: none">A. the foal is expelledB. the first water bag appearsC. the first water bag breaksD. the placenta is expelled	<p>C</p>

<p>The disease characterized by muscle mass being broken down after strenuous exercise is:</p> <ul style="list-style-type: none">A. azoturiaB. tying upC. exertional rhabdomyolysisD. all of the above	<p>D</p>
<p>A lack of hair in areas where hair should be normally present is called:</p> <ul style="list-style-type: none">A. atopiaB. alopeciaC. scaling offD. rain rot	<p>B</p>
<p>What disease would be associated with these symptoms: high temperature, increased respiration, depression, nasal discharge after second or third day, swelling of the lymph nodes which usually abscess?</p> <ul style="list-style-type: none">A. TetanusB. HeavesC. StranglesD. Equine Protozoal Myeloencephalitis	<p>C</p>
<p>What is the average gestation length of the mare?</p> <ul style="list-style-type: none">A. 252-283 daysB. 335-342 daysC. 383-401 daysD. 415-460 days	<p>B</p>

<p>Which of the following is the MOST important part of a set of oral reasons?</p> <ul style="list-style-type: none">A. AccuracyB. PresentationC. DeliveryD. Completeness	<p style="text-align: center;">A</p>
<p>A maiden mare is one that:</p> <ul style="list-style-type: none">A. is unable to get in foalB. has never been bredC. has aborted recentlyD. was not bred during the last season	<p style="text-align: center;">B</p>
<p>Orchitis means:</p> <ul style="list-style-type: none">A. inflammation of the olfactory nerveB. infection of the uterusC. infection of the ovariesD. inflammation of the testes	<p style="text-align: center;">D</p>
<p>The area in the chest cavity that contains the heart, the trachea and the esophagus is called:</p> <ul style="list-style-type: none">A. mediastinumB. pleuraC. peritoneumD. linea alba	<p style="text-align: center;">A</p>

<p>Hyperkalemia is:</p> <ul style="list-style-type: none">A. high levels of calcium in the bloodB. high levels of potassium in the bloodC. high levels of sodium in the bloodD. high levels of chlorine in the blood	<p>B</p>
<p>Abduction is a term for the movement of a limb _____ the body.</p> <ul style="list-style-type: none">A. away fromB. to the right ofC. to the left ofD. towards	<p>A</p>
<p>A fatal genetic disease that affects Arabian foals and impedes the formation of their own antibodies:</p> <ul style="list-style-type: none">A. RAOB. SCIDC. HYPPD. OCD	<p>B</p>
<p>The word "cachexia" means:</p> <ul style="list-style-type: none">A. lack of appetiteB. obesityC. lameD. wasting and malnutrition	<p>D</p>

<p>The poison found in blister beetles is called:</p> <ul style="list-style-type: none">A. gossypolB. tanninC. cantharidinD. lanthanum	<p>C</p>
<p>The cowboy in steer wrestling that rides on the opposite side of the steer that is being wrestled is called:</p> <ul style="list-style-type: none">A. bulldogB. hazerC. bull fighterD. heeler	<p>B</p>
<p>Floating ribs are:</p> <ul style="list-style-type: none">A. true ribsB. asternal ribsC. sternbraeD. xiphoid processes	<p>B</p>
<p>The wings of the atlas and sacrum are:</p> <ul style="list-style-type: none">A. vertebral processesB. articular surfacesC. spinous processesD. transverse processes	<p>D</p>

<p>Secretion of sweat by _____ glands is stimulated by motor nerves and by the hormone _____.</p> <ul style="list-style-type: none">A. sebaceous, epinephrineB. sensory, testosteroneC. apocrine, epinephrineD. sebaceous, testosterone	<p style="text-align: center;">C</p>
<p>Mammary glands are highly developed and modified...</p> <ul style="list-style-type: none">A. paracrine glandsB. apocrine glandsC. autocrine glandsD. sebaceous glands	<p style="text-align: center;">B</p>
<p>Epidermis tissue is:</p> <ul style="list-style-type: none">A. dense fibrous tissueB. stratified squamous tissueC. collagenous tissueD. loose connective tissue	<p style="text-align: center;">B</p>
<p>Smegma from the prepuce is produced by:</p> <ul style="list-style-type: none">A. sebaceous glandsB. apocrine tubular glandsC. subcutisD. dermis	<p style="text-align: center;">A</p>

<p>The _____ are considered to be vestiges of the carpal and tarsal pads of carnivores.</p> <ul style="list-style-type: none">A. ergotB. chestnutC. night-eyesD. both b and c	<p style="text-align: center;">D</p>
<p>A gene that masks the expression of another gene is called what?</p> <ul style="list-style-type: none">A. DominantB. RecessiveC. HeterozygousD. Genotype	<p style="text-align: center;">A</p>
<p>The dilution gene is responsible for all of the following colors except which?</p> <ul style="list-style-type: none">A. PalominoB. BuckskinC. PerlinoD. Grey	<p style="text-align: center;">D</p>
<p>Which of the following organ is part of the stallion's reproductive tract?</p> <ul style="list-style-type: none">A. Vas deferensB. OvaryC. UterusD. Corpus luteum	<p style="text-align: center;">A</p>

<p>How many pairs of chromosomes does the horse have?</p> <p>A. 12 B. 22 C. 32 D. 42</p>	<p>C</p>
<p>True or False?</p> <p>The average length of gestation of a mare is 9 months.</p>	<p>False</p>
<p>What is the name of the milk produced by the mare during the first few days after foaling that supplies the newborn foal with antibodies to protect the foal against disease?</p> <p>A. First milk B. Kumiss C. Mastitis D. Colostrum</p>	<p>D</p>
<p>Which of the following body parts is NOT part of the digestive system?</p> <p>A. Uterus B. Esophagus C. Small intestine D. Cecum</p>	<p>A</p>

<p>What is normal cell division called?</p> <ul style="list-style-type: none">A. InheritanceB. MitosisC. ChromosomesD. Meiosis	<p>B</p>
<p>True or False?</p> <p>The cream gene produces palomino, buckskin, and smokey black colored horses.</p>	<p>True</p>
<p>True or False?</p> <p>The hormone Progesterone is necessary for normal sexual behavior and testicular function in the stallion.</p>	<p>False</p>
<p>What is the term to describe a stallion that suffers from the retention of one or both testicles in the body cavity?</p> <ul style="list-style-type: none">A. Pseudo-geldingB. CryptorchidC. Proud cutD. Stag stallion	<p>B</p>

<p>What stored substance is an important energy source during high-intensity exercise?</p> <ul style="list-style-type: none">A. GlucoseB. ProteinC. GlycogenD. Hemoglobin	<p>C</p>
<p>What is the name of the three-layered, hollow, Y-shaped organ in the mare's reproductive tract?</p> <ul style="list-style-type: none">A. InfundibulumB. VulvaC. VaginaD. Uterus	<p>D</p>
<p>During which trimester of pregnancy is fetal development the greatest?</p> <ul style="list-style-type: none">A. First trimesterB. Second trimesterC. Third trimesterD. Fourth trimester	<p>C</p>
<p>What is the normal karyotype designation for a female horse?</p> <ul style="list-style-type: none">A. 32, XYB. 32, XXC. 64, XYD. 64, XX	<p>D</p>

<p>Type one muscle fibers are known as:</p> <ul style="list-style-type: none">A. slow twitchB. fast twitchC. high glycolyticD. high oxidative	<p style="text-align: center;">A</p>
<p>What bond in ATP provides the most energy when broken?</p> <ul style="list-style-type: none">A. PhosphateB. AdenineC. ThyrimineD. Tyrosine	<p style="text-align: center;">A</p>
<p>The following are functions of the respiratory system except:</p> <ul style="list-style-type: none">A. removal of gasB. temperature regulationsC. phonationD. ion exchange	<p style="text-align: center;">D</p>
<p>What is the name of the organelle in muscle tissue responsible for ATP production?</p> <ul style="list-style-type: none">A. lysosomesB. mitochondriaC. endoplasmic reticulumD. golgi body	<p style="text-align: center;">B</p>

<p>The nasal cavities are divided into three channels. Which is not one of them?</p> <ul style="list-style-type: none">A. dorsal meatusB. middle meatusC. ventral meatusD. caudal meatus	<p>D</p>
<p>Oxygen uptake in the horse is approximately:</p> <ul style="list-style-type: none">A. 30 L/minB. 1.8 L/minC. 6.4 L/minD. 15.2 L/min	<p>B</p>
<p>This disease is characterized by the destruction of a foal's red blood cells by serum antibodies in the colostrum of the name:</p> <ul style="list-style-type: none">A. combined immunodeficiencyB. isoerythrolysisC. lethal whiteD. hemophilia	<p>B</p>
<p>Which of the following is not true about the nasal cavity?</p> <ul style="list-style-type: none">A. scroll shaped turbinate bones deflect air through nasal passage wayB. mucous lining has sensory nerve endingsC. is connected to respiratory systemD. has cilia to facilitate movement of mucus	<p>D</p>

<p>What are vectors for many serious diseases (Pirpplasmosis) and are present in large numbers in the Southeast?</p> <ul style="list-style-type: none">A. MitesB. TicksC. Face fliesD. Blow flies	<p>B</p>
<p>This disease is caused by insufficient corticosteroid production by the adrenal glands:</p> <ul style="list-style-type: none">A. Cushing's diseaseB. Chron's diseaseC. Addison's diseaseD. Abu'urqub disease	<p>C</p>
<p>Blood for the bone is supplied by vessels in the periosteum and the:</p> <ul style="list-style-type: none">A. nutrient foramenB. nutrient arteryC. nutrient veinD. marrow cavity	<p>B</p>
<p>The _____ characterizes the proximal and distal ends of long bones.</p> <ul style="list-style-type: none">A. endosteumB. diaphysisC. epiphysisD. periosteum	<p>C</p>

<p>Endometrial cups are formed on the _____ day of gestation.</p> <ul style="list-style-type: none">A. 30thB. 32ndC. 36thD. 40th	<p>C</p>
<p>Geophagia is the act of eating:</p> <ul style="list-style-type: none">A. dirtB. woodC. fecesD. hair	<p>A</p>
<p>Relaxin is secreted by the:</p> <ul style="list-style-type: none">A. uterusB. placentaC. udderD. ovaries	<p>B</p>
<p>What is the term for the blood stored in the spleen?</p> <ul style="list-style-type: none">A. reverse erythrocytesB. splanchnic reservoirC. leukocytopeniaD. spleen expansion and contraction	<p>B</p>

<p>Myopia is when the image is formed:</p> <ul style="list-style-type: none">A. in front of the eyeB. in front of the retinaC. behind the eyeD. behind the retina	<p>B</p>
<p>What is the name of the hormone secreted by the pituitary gland which stimulates the adrenals to secrete corticosteroids?</p> <ul style="list-style-type: none">A. TSHB. AdrenalineC. GHD. ACTH	<p>D</p>
<p>On what chromosome does the gene for hemophilia ride?</p> <ul style="list-style-type: none">A. XY chromosomeB. X chromosomeC. Y chromosomeD. chromosome 23	<p>B</p>
<p>Trypsin, chymotrypsin, and carboxypeptidase are enzymes that digest:</p> <ul style="list-style-type: none">A. carbohydratesB. lipidsC. proteinD. minerals	<p>C</p>

The vomeronasal organ contains:

- A. olfactory receptors
- B. gustatory receptors
- C. auditory receptors
- D. salivary receptors

A