

**2007 Iowa FFA Horse Evaluation and Selection Career Development Event
Problem Solving**

A. Tack use, problems, and identification

Use the photo below to answer question #1



1. To determine the size of the saddle seat, pictured above, in inches, where would the measurement be taken?
- a. From the tip of the Fender to the top of the horn
 - b. From the Base of the horn to the top of the cantle
 - c. From the end of the front skirt to the end of the back skirt
 - d. From the top of the gullet to the base of the horn

Use the photo below for question #2



2. What type of bridle is depicted in the photo above with the parts listed in correct order starting at the portion of the bridle identified as part A?
- a. Pelham – Crown piece, brow band, cheek piece, throat latch, cavesson, curb bit, curb chain, lip strap, and curb rein.
 - b. Hackamore – Crown piece, brow band, cheek piece, throat latch, cavesson, snaffle bit, curb bit, curb chain, lip strap, and curb rein
 - c. Split Ear – Crown piece, brow band, cheek piece, throat latch, cavesson, snaffle bit, curb chain, lip strap, curb rein, and snaffle rein.
 - d. Weymouth – Crown, brow band, cheek piece, throat latch, nose band, curb bit, curb chain, lip strap, curb rein, and curb snaffle.

B. Basic horse nutrition, feeding, and identification of feed

3. You are having the local coop mix one ton of a 14 % crude protein (C.P.) ration for you. To make the ration cost effective, you are using two ingredients one is at oats at 12% C.P. and the other is a protein supplement at 24% C.P. How many pounds of the protein supplement would have to be mixed into this ration by the coop?
- a. 234.23 pounds of protein
 - b. 367.34 pounds of protein
 - c. 255.57 pounds of protein
 - d. 333.33 pounds of protein
4. What would be the total delivered cost per ton of the ration above (problem #3) using the following costs and information. The oats were sold for \$1.85 bushel, and have a dry weight of 32 pounds/bushel, and the supplement cost .50 per pound. The coop is charging a flat rate of \$ 30 for grinding, delivery, and taxes. Your total cost for one ton of delivered feed is?
- a. \$ 342.16
 - b. \$ 254.97
 - c. \$ 293. 02
 - d. \$ 318. 03

C. Breeding, Breeding Management, and Reproductive Problems

5. You have an eight year old mare that you have seen in heat several times and know her reproductive tract to be sound for breeding, what two hormones are released by the pituitary gland to regulate the estrous cycle?
- a. Progesterone and Estrogen
 - b. Estrogen and Testosterone
 - c. Estrogen and Follicle Stimulating Hormone
 - d. Follicle Stimulating Hormone and Luteinizing Hormone
6. You have an eight year old Friesian mare, who you are considering breeding back on foal heat, which of the following should not be part of the criteria that will help you decide if you should breed this mare on foal heat?
- a. Produced a normal, live healthy foal
 - b. Have passed a normal placenta within three hours
 - c. Have high antibody levels in colostrum
 - d. Have no bruises in or abnormal discharge from the vagina

D. Disease, parasite, and health control and prevention

7. Your eight year old Warmblood exhibits the following clinical symptoms; gait stiffness, fever, neck stiffness, elevations in heart rate, elevations in respiratory rate, flared nostrils, prolapse of the third eyelid, trismus and hyperproponsiveness to light, touch, or sounds. What is your horse suffering from?
- a. Tetanus
 - b. Strangles
 - C. West Nile
 - d. Rhinopneumonitis
8. For which infectious disease listed below should a broodmare be vaccinated against to prevent abortion?
- a. Distemper
 - b. Viral Rhinopneumonitis
 - c. Equine Influenza
 - d. Encephalomyelitis

E. Riding Problems

9. You have a well broke ten year old Arabian gelding that has always been very easy to saddle and work around. Recently, you purchased a six year old appaloosa gelding to show in game classes. You have one set of tack and the first few times that you ride the new gelding everything went well. However, two days ago the new gelding nipped at you while being cinched up, but rode out okay. Today, you were working in the arena and the new gelding bucked hard, causing you to fall off, although not hurt, you noticed the gelding continued to buck. What is the most likely cause of this problem?
- a. Spurs are being used too much on the gelding.
 - b. Saddle does not fit the gelding correctly.
 - c. Gelding is barn sour and doesn't want to be ridden.
 - d. Wrong bit is being used on this gelding.

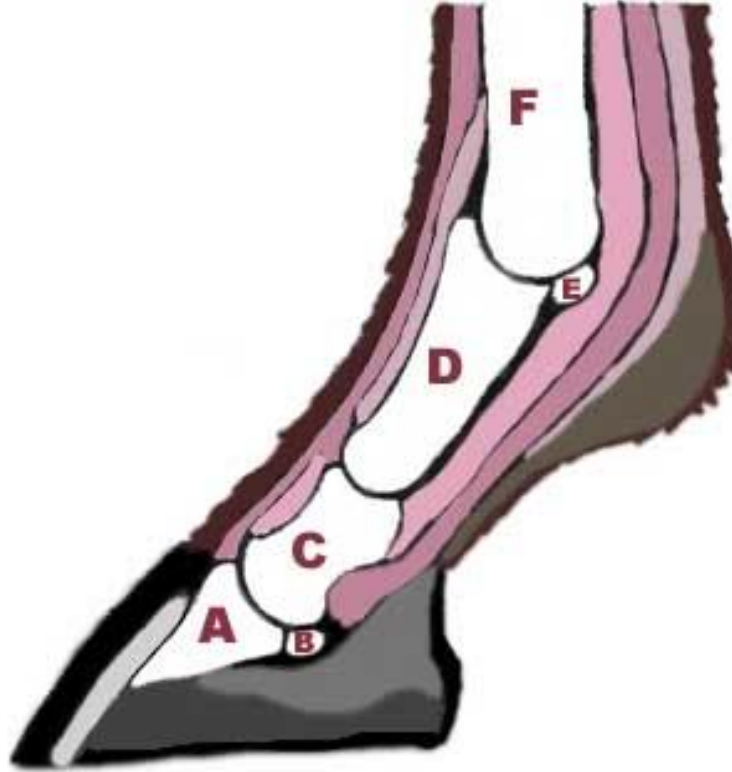
10. You are looking to purchase a six year old western pleasure horse and are spending lots of time searching. When evaluating the horses for purchase what would you hope to see in a jog trot?
- A nice four beat jog, extremely slow speed, and head carried level with withers.
 - A crisp three beat jog, medium speed, and head carried about four inches below withers.
 - A rhythmic two beat jog, constant speed, and head carried level with withers.
 - A rhythmic three beat jog, extremely slow speed, and head carried elevated.

F. Handling problems and vices

11. You want to clip your horse's ears for an important event occurring in the next week. He will not let you near his ears with the clippers. He has taken to slinging his head away the minute the clippers touch his ear. What is the correct way to resolve this problem, so that your horse will become easy to trim and less of a problem for you?
- Hire a professional to clip his ears.
 - Snub him to a post and then tie up a leg so he cannot move, then blindfold him and clip his ears, so he learns this process will not hurt him.
 - Punish him each time he throws his head by hitting him with the clippers, in the head, so that he learns you don't want him to do this.
 - Start the clippers on his neck and move the clippers up to his ears, until he realizes he will not get hurt and adjusts to the clippers.
12. You have taken your weanling futurity prospect to your round pen for a light workout. This filly has been working out well for the past two weeks and nothing seems different when she is walking around, but when asked to trot your filly begins bobbing her head up and down, stopping, and refusing to move forward. You utilize your whip and get her moving forward again, but the head bobbing continues. You have not seen this behavior in the past. What is most likely wrong with your filly?
- She has some type of lameness problem.
 - She is too young for this type of exercise and cannot be trained for it.
 - She is suffering from a case of Equine recurrent uveitis.
 - She has become barn sour.

G. Foot care, anatomy, and problems

Use the following diagram for question # 13



13. The correct names for the parts of the Equine leg shown in the diagram above lettered in the correct order A – F is?
- a. Cannon Bone, Sesamoid Bone, Long Pastern Bone, Short Pastern Bone, Navicular Bone, and Coffin Bone
 - b. Short Pastern Bone, Long Pastern Bone, Navicular Bone, Coffin Bone, Cannon Bone, and Sesamoid Bone
 - c. Coffin Bone, Navicular Bone, Short Pastern Bone, Long Pastern Bone, Sesamoid Bone, and Cannon Bone
 - d. Navicular Bone, Short Pastern Bone, Long Pastern Bone, Sesamoid Bone, Cannon Bone, and Coffin Bone
14. What is considered the hoof's natural conditioner and has been shown to have a direct effect on hoof quality?
- a. Water
 - b. Calcium
 - c. Vitamin A
 - d. Vitamin C

H. Breeds, breed use/selection, anatomy, and identification

15. Your vet was out and explained your horse had broken a portion of its Coccygeal Vertebrae, what part of the horse would these be found in?

- a. Back
- b. Tail
- c. Neck
- d. Leg

Utilize the following photo for question #16



16. If you were looking to purchase the horse above and looked at its registration papers with the American Paint Horse Association (APHA) what coat pattern should be listed on the papers?

- a. Tovero
- b. Sabino
- c. Tobiano
- d. Overo

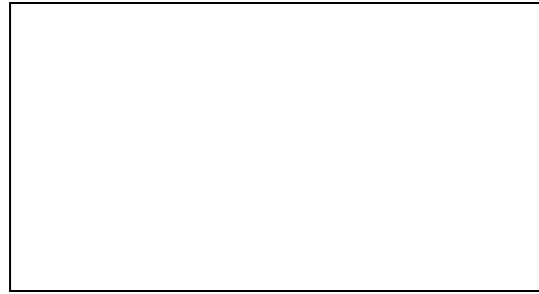
I. Horse facilities and stable equipment

17. Which of the following should be an important consideration when planning a new horse facility?

- a. Barn layout for efficiency in day to day operations.
- b. Purpose of the facility
- c. Room for future expansion
- d. All of the above

Pasture dimensions for problem #18

124 feet



76 feet

18. You have decided to fence off a temporary grazing area with a two strand electric fence. The dimensions of the area are shown above. Your local farm supply store has rolls that contain 1,000 feet of electric wire. How many complete rolls of this electric wire will you use to complete this two strand electric fence?
- a. 18
 - b. 20
 - c. 22
 - d. 24

I. Careers, Business Management, and Marketing

19. A horse owner is working on a budget for the coming year and needs to estimate how much the minimum farrier costs will be for the coming year. There are three geldings that are shown intensely all year and are shod every 6 weeks. Each gelding can get one reset out of a pair of shoes. There are also five young horses that are trimmed every 8 weeks and two broodmares that are trimmed three times a year. How much, at a minimum, should be budgeted for the farrier work describe above utilizing the following prices?

Trims \$30/head \$55/head for resets \$75/head for new shoes

- a. \$ 1580
 - b. \$ 2640
 - c. \$ 3700
 - d. \$4760
20. You are considering the purchase of a new stallion for your breeding farm. The stallion is a proven Grand Prix Level Dressage individual and the owner is asking \$67,000. You know that you will need to borrow the money to help pay for him and the current interest rate is 7%. What is the minimum number of outside mares, at a stud fee of \$ 2000/ mare that you would have to breed to the stallion to pay off the loan in one year?
- a. 32 mares
 - b. 34 mares
 - c. 36 mares
 - d. 38 mares

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Master

Answers

1. B
2. A
3. D
4. C
5. D
6. C
7. A
8. B
9. B
10. C
11. D
12. A
13. C
14. A
15. B
16. A
17. D
18. A
19. B
20. C