

2015 MN FFA State Small Animal Career Development Event: Problem Solving Practicum 50 points

Nutrition Problems - 5 questions at 4 points each = 20 points

Using the pet food labels above answer the following questions. Mark your answer sheet as "A" for the Pet Food A, as "B" for the Pet Food B and as "C" for the Pet Food C. In some cases the questions may be multiple choice so indicate the correct answer.

1. If you are feeding an 80 lb dog, which is the least expensive assuming you are feeding the lowest recommended amount for each food?
A, B or C
2. My dog has been having several joint issues in the last few months. Which dog food would you recommend?
A, B, or C
3. My dog has had issues with plaque and tartar buildup on his teeth. Which food would you recommend to help with this?
B or C
4. If I wanted to feed Pet Food A to a 60 lb. dog, how many bags would I have to buy in one year?
 - a. 8
 - b. 9
 - c. 10
 - d. 11
5. Which sample has a primary ingredient that is higher in carbohydrates than the other two?
A, B, or C

Health Issues – 15 questions at 2 points each for this section = 30 points

Answer each of the questions below with the information provided.

6. You are working in a fish store and a customer tells you that they set up an aquarium about 3 weeks ago and now it looks like her fish is gasping for air at the surface of the water. You tell her that her fish most likely has:
 - a. Velvet Disease
 - b. Anchorworm
 - c. Nitrite poisoning
 - d. Fungal infection
7. Barney has been very lethargic recently. It is summer and he usually loves to play with the other family dogs outside in the nearby woods and tall grasses, but is having trouble breathing, has started coughing, and gets tired easily. Most likely Barney has:
 - a. Fleas
 - b. Rabies
 - c. Mites
 - d. Heartworm
8. A friend's cat has developed vomiting and severe diarrhea in the past couple of days. Your friend noticed that some raccoons have been hanging around and drinking out of the cat's water bowl and eating some of its food at night. Most likely the cat should go to the vet to be checked for:
 - a. FVR
 - b. Leukemia
 - c. Distemper
 - d. None of the above
9. Polly has a beak deformity from a past disease that had her itching a lot and wasn't treated right away. Most likely her beak deformity was caused by:
 - a. Mites
 - b. Alopecia
 - c. Threadworm
 - d. Roundworm
10. Buffy has what looks like rice stuck to her fur by her butt. What does Buffy have?
 - a. Roundworm
 - b. Tapeworm
 - c. Hookworm
 - d. Whipworm

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11. Upon physical examination, Charlie has shown poor reflexes, coordination, and awareness. These symptoms are all seen as abnormalities in the:
 - a. Digestive system
 - b. Cardiovascular system
 - c. Nervous system
 - d. Reproductive system
12. Piper came to the vet with sunken eyes, skin tenting of 4 seconds and has a body condition score of 3. She is showing significant signs of:
 - a. Poisoning
 - b. Dehydration
 - c. Infection
 - d. Lameness
13. Alfredo has a body temperature of 105 °F. What species is he if this is within normal ranges?
 - a. Dog
 - b. Cat
 - c. Rabbit
 - d. Parrot
14. A 2 - year old intact male Golden retriever was presented with a 4” laceration with extensive hemorrhage on his right carpus. Where was the hemorrhage?
 - a. On the back of his neck
 - b. On his shoulder
 - c. Near his hip
 - d. Near the bottom part of his leg
15. The owner of a dog stated that his dog was seen eating rat bait about 3 days ago. Blood was collected at the veterinary clinic in a heparin tube and assessed. Part of the treatment for this dog should include a supplement of:
 - a. Vitamin C
 - b. Vitamin D
 - c. Riboflavin
 - d. Vitamin K
16. Oreo just gave birth to a litter of kittens. As her owner, you know the kittens may gain immunity through colostrum. This is called:
 - a. Passive immunity
 - b. Natural active immunity
 - c. Artificial active immunity
 - d. No immunity – You are mistaken as immunity cannot occur from mother to offspring in this way.
17. A neo-natal greater sulfur crested cockatoo was presented with a history of being tube fed with a red rubber tube. The tube became dislodged from the feeding syringe and was swallowed by the chick. A radiograph was taken showing the tube was located anterior to the proventriculus. Which of the following could be true for the location of the feeding tube? It is most likely in or near the:
 - a. Gizzard
 - b. Ileum
 - c. Crop
 - d. Ceca
18. Sheba is an indoor/outdoor cat who frequently brings home critters. Because of this, the pregnant owner must avoid cleaning the litter box. What might this cat have that could hurt its owner?
 - a. Tapeworms
 - b. Lice
 - c. Toxoplasmosis
 - d. Roundworms
19. Spud has an inflammation of the conjunctiva and the fur near the conjunctiva has become matted. This rabbit has:
 - a. Wry neck
 - b. Mastitis
 - c. Weepy eye
 - d. Ear mites
20. The ammonia level in an established 55-gallon aquarium with 40 neon tetras was tested at 6ppm. The aquarium has been set up for 9 months with no previous problems. This level of ammonia is most likely due to:
 - a. Infrequent water changes
 - b. Overfeeding
 - c. Lack of carbon filtration
 - d. A change in water temperature

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Nutrition Problems

Use the Pet Food Labels A, B, and C to answer the “nutrition problem” questions that follow.

PET FOOD A 20 LBS = \$18.00

Ingredients

Whole Grain Corn, Corn Gluten Meal, Chicken By-Product Meal, Soybean Mill Run, Powdered Cellulose, Soybean Meal, Chicken Liver Flavor, Dried Beet Pulp, Pork Flavor, Lactic Acid, Soybean Oil, Caramel color, DL-Methionine, L-Lysine, Potassium Chloride, Choline Chloride, vitamins (Vitamin E Supplement, L-Ascorbyl-2-Polyphosphate (source of vitamin C), Niacin Supplement, Thiamine Mononitrate, Vitamin A Supplement, Calcium Pantothenate, Biotin, Vitamin B12 Supplement, Pyridoxine Hydrochloride, Riboflavin Supplement, Folic Acid, Vitamin D3 Supplement), Calcium Carbonate, Iodized Salt, minerals (Manganese Sulfate, Ferrous Sulfate, Zinc Oxide, Copper Sulfate, Calcium Iodate, Sodium Selenite), Taurine, L-Carnitine, Mixed Tocopherols for freshness, Phosphoric Acid, Beta-Carotene, Natural Flavors.

Average Nutrient and Caloric Content

Dry 2968 kcal/kg (244 kcal/cup)

Target Weight of Dog	Amount Per day
5 lb (2,3 kg)	1/2 cup (40 g)
10 lb (4,5 kg)	7/8 cup (70 g)
15 lb (6,8 kg)	1 1/4 cups (105 g)
20 lb (9,1 kg)	1 1/2 cups (125 g)
30 lb (14 kg)	2 cups (165 g)
40 lb (18 kg)	2 1/2 cups (205 g)
50 lb (23 kg)	3 cups (245 g)
60 lb (27 kg)	3 1/2 cups (285 g)
70 lb (32 kg)	3 3/4 cups (310 g)
80 lb (36 kg)	4 1/4 cups (350 g)
100 lb (45 kg)	5 cups (410 g)

Nutrient	Dry Matter %
Protein	34.6
Fat	8.2
Carbohydrate (NFE)	38.2
Crude Fiber	13.1
Total Dietary Fiber	25.7
Soluble Fiber	1.6
Insoluble Fiber	23.5
Calcium	0.81
Phosphorus	0.7
Sodium	0.30
Potassium	0.96
Magnesium	0.123
Carnitine	340 ppm

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PET FOOD B

50 LBS = \$42.00

Ingredients

Chicken, Whole Grain Wheat, Powdered Cellulose, Brown Rice, Chicken Fat, Chicken Meal, Whole Grain Corn, Corn Gluten Meal, Cracked Pearled Barley, Whole Grain Sorghum, Chicken Liver Flavor, Oat Groats, Soybean Mill Run, Wheat Gluten, Pork Liver Flavor, Calcium Sulfate, Lactic Acid, Soybean Oil, Fish Oil, Potassium Chloride, Iodized Salt, Calcium Carbonate, Choline Chloride, L-Lysine, vitamins (Vitamin E Supplement, L-Ascorbyl-2-Polyphosphate (source of vitamin C), Niacin Supplement, Thiamine Mononitrate, Vitamin A Supplement, Calcium Pantothenate, Biotin, Vitamin B12 Supplement, Pyridoxine Hydrochloride, Riboflavin Supplement, Folic Acid, Vitamin D3 Supplement), Taurine, minerals (Ferrous Sulfate, Zinc Oxide, Copper Sulfate, Manganous Oxide, Calcium Iodate, Sodium Selenite), Dicalcium Phosphate, Oat Fiber, Mixed Tocopherols for freshness, Beta-Carotene, Phosphoric Acid, Natural Flavors, Dried Apples, Dried Broccoli, Dried Carrots, Dried Cranberries, Dried Peas.

Average Nutrient and Caloric Content

Dry 3464 kcal/kg (275 kcal/cup)

Nutrient	Dry Matter %
Protein	24.0
Fat	16.9
Carbohydrate (NFE)	43.1
Crude Fiber	9.4
Calcium	1.17
Phosphorus	0.6
Sodium	0.38
Potassium	0.75
Magnesium	0.099

Weight of Dog	Amount per Day
5 lb (2,3 kg)	5/8 cup (50 g) - 7/8 cup (70 g)
10 lb (4,5 kg)	1 1/8 cups (90 g) - 1 1/2 cups (120 g)
20 lb (9,1 kg)	1 3/4 cups (140 g) - 2 1/2 cups (200 g)
40 lb (18 kg)	3 cups (235 g) - 4 1/4 cups (335 g)
60 lb (27 kg)	4 cups (315 g) - 5 2/3 cups (450 g)
80 lb (36 kg)	5 cups (395 g) - 7 cups (555 g)
100 lb (45 kg)	6 cups (475 g) - 8 1/4 cups (650 g)

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PET FOOD C	44 LBS = \$35.00
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Ingredients

Chicken, Whole Grain Wheat, Cracked Pearled Barley, Whole Grain Sorghum, Whole Grain Corn, Corn Gluten Meal, Chicken Meal, Chicken Liver Flavor, Pork Fat, Dried Beet Pulp, Soybean Oil, Lactic Acid, Flaxseed, Potassium Chloride, Iodized Salt, Calcium Carbonate, Choline Chloride, vitamins (Vitamin E Supplement, L-Ascorbyl-2-Polyphosphate (source of Vitamin C), Niacin Supplement, Thiamine Mononitrate, Vitamin A Supplement, Calcium Pantothenate, Vitamin B12 Supplement, Pyridoxine Hydrochloride, Riboflavin Supplement, Folic Acid, Biotin, Vitamin D3 Supplement), minerals (Ferrous Sulfate, Zinc Oxide, Copper Sulfate, Manganous Oxide, Calcium Iodate, Sodium Selenite), Oat Fiber, Taurine, Mixed Tocopherols for freshness, Natural Flavors, Beta-Carotene, Dried Apples, Dried Broccoli, Dried Carrots, Dried Cranberries, Dried Peas

Average Nutrient and Caloric Content

Dry 3659 kcal/kg (363 kcal/cup)

Nutrient	Dry Matter %
Protein	24.5
Fat	15.0
Carbohydrate (NFE)	52.7
Crude Fiber	2.2
Calcium	1.00
Phosphorus	0.7
Sodium	0.30
Potassium	0.70
Magnesium	0.114
Carnitine	13 ppm
Vitamin C	304 mg/kg
Vitamin E	729 IU/kg
Chondroitin Sulfate	1012 mg/kg (ppm)
Glucosamine	779 mg/kg (ppm)

Weight of Dog	Amount per Day
50 lb (23 kg)	2 2/3 cups (265 g) - 3 3/4 cups (370 g)
60 lb (27 kg)	3 cups (295 g) - 4 1/4 cups (420 g)
80 lb (36 kg)	3 3/4 cups (370 g) - 5 1/4 cups (520 g)
100 lb (45 kg)	4 1/2 cups (445 g) - 6 1/4 cups (620 g)
120 lb (54 kg)	5 1/4 cups (520 g) - 7 1/4 cups (720 g)
140 lb (64 kg)	5 3/4 cups (570 g) - 8 cups (790 g)
160 lb (73 kg)	6 1/2 cups (645 g) - 9 cups (890 g)