



10. Finches should be kept in cages that are of what shape?
- A. Circular
  - B. Rectangular
  - C. Square
  - D. The shape does not matter

**Anatomy and Physiology: 10 Questions**

11. Where does oxygen exchange in the gills of a fish?
- A. Alveoli
  - B. Air Sacs
  - C. Lamella
  - D. None of the Above
12. The average cat weighs \_\_\_\_\_ pounds.
- A. 4-6
  - B. 5-10
  - C. 6-12
  - D. 7-14
13. The top layer of skin is called the?
- A. Sebaceous
  - B. Epidermis
  - C. Dermis
  - D. Subcutaneous
14. What is the average temperature of a dog?
- A. 98.6F
  - B. 96.6F
  - C. 101F
  - D. 99.8F
15. What is the purpose of mucous membranes that line the eyelids and are attached to the upper part of the eyeball?
- A. Protect eye
  - B. Produce tears
  - C. Remove foreign material
  - D. Maintain shape of eye
16. Most fish have at least one vertical \_\_\_\_\_ fin along their back.
- A. dorsal
  - B. caudal
  - C. adipose
  - D. anal
17. What is the average temperature of a rabbit?
- A. 88-90F
  - B. 97-98F
  - C. 90-92F
  - D. 99-102F
18. Vocal sounds of a cat are produced by \_\_\_\_\_.
- A. Air expanding the larynx
  - B. Contracting the diaphragm
  - C. Vibrating the uvula
  - D. Changes in the tension of muscles
19. One function of the gizzard in birds is to grind food with?
- A. Saliva
  - B. Acids
  - C. Carbohydrates
  - D. Grit
20. Fish have taste buds located in *or on up to* how many body parts?
- A. 4
  - B. 5
  - C. 6
  - D. 7

### **Diseases and Parasites: 10 Questions**

21. Canine brucellosis will cause dogs to exhibit all but which of the following symptoms?  
A. abortion  
B. frothing at the mouth  
C. failure to whelp  
D. swollen testes
22. Swelling of the thyroid gland is a sign of?  
A. Goiter  
B. Pasteurellosis  
C. Infectious canine hepatitis  
D. Ulcer
23. Mange is a disease caused by??  
A. Mites  
B. Mosquitoes  
C. Ticks  
D. Lice
24. If there is a bacterial infection under the skin a (n) \_\_\_\_\_ is likely to develop.  
A. Abscess  
B. Adystocia  
C. Stroke  
D. Colic
25. Birds suffer from the following mites except?  
A. Scaly face and leg mites  
B. Feather mites  
C. Nest mites  
D. Red mites
26. Aeromonas and Pseudomonas are bacteria that cause infection in reptile?  
A. Digestive System  
B. Skin  
C. Nervous System  
D. Circulatory System
27. Which of the following is not a fungal organism that causes ringworm in dogs?  
A. Microsporum canis  
B. Microsporum gypseum  
C. Microsporum eglaris  
D. Trichophyton mentagrophytes
28. What disease is the most common cause of death in rabbits?  
A. Snuffles  
B. Mastitis  
C. Enteritis  
D. Weepy Eye
29. All of the following are noninfectious diseases except:  
A. camylobacteriosis  
B. heart disease  
C. cataracts  
D. arthritis
30. Birds suffer from the following mites except?  
A. Nest Mites  
B. Feather Mites  
C. Red Mites  
D. Scaly Face and Leg Mites

### **Breeding and Genetics: 10 Questions**

31. The process of giving birth to puppies is known as?  
A. Docking  
B. Hatching  
C. Cropping  
D. Whelping

32. The basic unit of heredity is?  
A. Sperm  
B. Genes  
C. Ova  
D. Mutation
33. Cats may meow excessively and crouch during which cycle?  
A. Estrus  
B. Met-estrus  
C. Ana-estrus  
D. Pro-estrus
34. What type of animal has Amniotic eggs?  
A. Mammal  
B. Bird  
C. Fish  
D. Amphibians
35. Average gestation period of a dog is?  
A. 58 – 68 days  
B. 30 – 32 days  
C. 50 – 55 days  
D. 71 - 80 days
36. Most rabbits become sexually mature at \_\_\_\_\_ of age, depending upon the breed.  
A. 2 to 5 months  
B. 3 to 6 months  
C. 5 to 8 months  
D. 6 to 9 months
37. With fish, the release of eggs by the female and fertilization with sperm released by the male?  
A. Gestation  
B. Ovulation  
C. Spawning  
D. Fertilization
38. In birds the urinary and sexual openings are in the \_\_\_\_\_.  
A. Cloaca  
B. Ceca  
C. Collop  
D. Copra
39. \_\_\_\_\_ is the nutrient needed to grow new tissue and repair old tissue.  
A. Calcium  
B. Protein  
C. Sulfur  
D. Vitamin D
40. A female dog WILL NOT accept mating with a male dog during what time?  
A. Estrus  
B. Proestrus  
C. Estrous  
D. Gestation

**Nutrition: 10 Questions**

41. Which of the following vitamins is important for successful reproduction?  
A. A  
B. B  
C. D  
D. E
42. What is a major source of energy in animal feeds?  
A. Calcium  
B. Carbohydrates  
C. Minerals  
D. Vitamins

43. Due to the ability of a cat to synthesize these vitamins, they are not required in a cat's diet.
- A. B and C
  - B. A and D
  - C. C and K
  - D. A and K
44. According to the N.R.C. the average dog should have a diet that consists of \_\_\_\_\_% fat.
- A. 23
  - B. 25
  - C. 19
  - D. 21
45. This breed of cat is unable to store body fat and thus needs to eat frequently to maintain its body temperature?
- A. Sphynx
  - B. Oriental Shorthair
  - C. Colorpoint Shorthair
  - D. None of the above
46. Cats have a high requirement for?
- A. Protein
  - B. Minerals
  - C. Calcium
  - D. Carbohydrates
47. The following supplement provides the most usable calcium in a dog's diet?
- A. Yeast
  - B. Milk
  - C. Bonemeal
  - D. Cod liver oil
48. Which type of seeds for birds contains the most carbohydrates?
- A. Oil Seeds
  - B. Cereal Seeds
  - C. Fruit Seeds
  - D. Peanuts
49. All of the following are macrominerals except:
- A. calcium
  - B. phosphorus
  - C. sulfur
  - D. zinc
50. Component of feed used to maintain animal body temperature and used when animals are exercised?
- A. Vitamins
  - B. Minerals
  - C. Carbohydrates
  - D. Water

**2011 Small Animal Care  
Written Test Key**

**1.C  
2.C  
3.B  
4.A  
5.A  
6.A  
7.B  
8.A  
9.A  
10.B  
11.C  
12.C  
13.B  
14.C  
15.A  
16.A  
17.D  
18.D  
19.D  
20.B  
21.B  
22.A  
23.A  
24.A  
25.C  
26.A  
27.C  
28.C  
30.A  
31.D  
32.B  
33.A  
34.B  
35.A  
36.C  
37.C  
38.A  
39.B  
40.B  
41.D  
42.B  
43.C  
44.A  
45.A**

**46.A  
47.C  
48.B  
49.D  
50.D**



**2011 ND State FFA Convention**  
**Small Animal Care Event**  
**Team Problem Solving Activity-50 Points**  
**Page 1 of 2**

**Instructions:** Work together with your teammates to complete the following sales problems. There will be five points available for each correct answer you calculate. Please use the attached sheet of problem numbers and choices to select your answers from. Then place your answers on the scantron sheet provided. Each team only needs to turn in one sheet. The points earned on this activity will be added to your team score (that is, the top three folks on your team whose scores comprise your team score). Good luck.

**Situation:** You work for Pet World and a customer purchases the following items. You must calculate the total cost for each item, the appropriate sales tax, and the total amount of the bill. Assume that sales tax is 6%.

*Pet World*  
*557 Honeydew Lane*  
*Podunk, ND 58888*

Item	Quantity	Unit Cost	Total Cost	Problem Number
Fish tank	1	\$ 55.00	_____	
Fish Food	1	\$ 5.65	_____	
Gourami fish	2	\$ 4.95	_____	Problem 1
Tank Decortions	3	\$ 3.17	_____	Problem 2
Water conditioner	1	\$ 3.79	_____	
Goldfish	10	\$ 0.47	_____	
Sub Total			_____	Problem 3
Sales Tax			_____	Problem 4
Grand Total			_____	Problem 5

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**Page 2...**

**Situation:** Pet world is pet supply store located in Bismarck, North Dakota, recently opened up by Alicia Wehri a recent college graduate. As a young business woman running her own business, she is looking for a new book keeper do her bi-weekly payroll and billing for services rendered. You have interviewed for the job and must now take the following competency exam.

Bret Maverek is a Salesman for Pet World. Over the last two weeks, he worked 111.25 hours. His hourly wage currently stands at \$17.88. He does receive time and a half for hours worked in excess of 40 per week. **USE THE INFORMATION PROVIDED TO COMPLETE THE FOLLOWING TABLE. THE END RESULT OF THIS TABLE WILL TELL YOU WHAT BRET'S NET PAYCHECK SHOULD BE FOR THE TWO WEEK PERIOD IN QUESTION. GOOD LUCK.**

Description	Number of Units	Rate	Category Total
Total hours for pay period ending May 31, 2011	___ hours regular pay	\$17.88	_____ (Problem 6)
Overtime	___ hours overtime pay	_____ (Problem 7)	_____
Total Gross Pay for period ending May 31, 2008			_____ (Problem 8)
Social Security Withheld		6.2%	_____ (Problem 9)
Medicare Tax Withheld		1.45%	_____
Federal IT Withheld	None	None	None
ND IT Withheld	None	None	None
Other Payroll Deduction(s)	Store Uniforms	\$25.00	\$25.00
Net Pay			_____ (Problem 10)

**2011 ND State FFA Convention**  
**Small Animal Care Event**  
**Team Problem Solving Activity-50 Points**

**Instructions:** Cross reference the answers you arrive at to the problems on pages one and two of your Team Problem Solving Activity with the choices provided on this document. Then clearly mark the letter of your choice on the Scantron Sheet provided. Be sure to use a number two pencil to do so. ***YOU ONLY NEED TO HAND IN THE SCANTRON SHEET WITH YOUR CHAPTER NAME AT THE CONCLUSION OF THIS PART OF THE CONTEST. GOOD LUCK.***

Problem 1:

- |            |           |
|------------|-----------|
| A. \$4.95  | C. \$9.90 |
| B. \$14.85 | D. \$5.95 |

Problem 2:

- |           |            |
|-----------|------------|
| A. \$9.51 | C. \$3.17  |
| B. \$6.34 | D. \$12.68 |

Problem 3:

- |            |            |
|------------|------------|
| A. \$72.60 | C. \$75.20 |
| B. \$84.70 | D. \$88.55 |

Problem 4:

- |            |           |
|------------|-----------|
| A. \$53.13 | C. \$5.31 |
| B. \$16.29 | D. \$0.53 |

Problem 5:

- |             |             |
|-------------|-------------|
| A. \$93.86  | C. \$89.08  |
| B. \$141.68 | D. \$104.84 |

Problem 6:

- |              |              |
|--------------|--------------|
| A. \$715.20  | C. \$1989.15 |
| B. \$1439.80 | D. \$1430.40 |

Problem 7:

- |            |            |
|------------|------------|
| A. \$17.88 | C. \$8.94  |
| B. \$26.82 | D. \$19.00 |

Problem 8:

- |              |              |
|--------------|--------------|
| A. \$1553.33 | C. \$2268.53 |
| B. \$2827.28 | D. \$1939.80 |

Problem 9:

- |             |              |
|-------------|--------------|
| A. \$140.65 | C. \$1406.49 |
| B. \$93.30  | D. \$98.63   |

Problem 10:

- |              |              |
|--------------|--------------|
| A. \$2628.74 | C. \$2094.99 |
| B. \$1354.79 | D. \$2069.99 |

**2011 State FFA Small Animal Care  
Team Problem Key**

- 1. C**
- 2. A**
- 3. D**
- 4. C**
- 5. A**
- 6. D**
- 7. B**
- 8. C**
- 9. A**
- 10. D**

