

**2016 University of Minnesota Winter Invitational
Small Animal Care CDE Exam**

Bubble in the most correct answer on the exam section of the scantron.

1. Which is **not** typically observed with a patient in shock?
 - a. Pale gums
 - b. Weak pulse
 - c. Capillary refill time of 1 second
 - d. Rapid heart rate

2. What is the correct order, from head to tail, for the regions of a canine vertebral column?
 - a. Cervical, thoracic, lumbar, sacral, and coccygeal
 - b. Cervical, thoracic, lumbar, caudal, and sacral
 - c. Cranial, thoracic, lumbar, sacral, and caudal
 - d. Coccygeal, thoracic, lumbar, sacral, and cervical

3. What part of a chicken's gastrointestinal system stores and softens food before it reaches the stomach?
 - a. Ventriculus
 - b. Cloaca
 - c. Crop
 - d. Furcula

4. Which organ is **not** part of the endocrine system?
 - a. Thyroid gland
 - b. Kidney
 - c. Pancreas
 - d. Ovaries

5. Which compartment of the heart forces the blood into the systemic circulation?
 - a. Right ventricle
 - b. Left ventricle
 - c. Right atrium
 - d. Left atrium

6. Which is a function of the pancreas?
 - a. Fat digestion
 - b. Fiber degradation
 - c. Bile production
 - d. Hall production

7. Which is **not** a parenteral route of administering medication?
 - a. Intravenous
 - b. Subcutaneous
 - c. Intranasal
 - d. Oral

8. Which of the following is a type of white blood cell?
 - a. Erythrocyte
 - b. Adipocyte
 - c. Monocyte
 - d. Thrombocyte

9. What is the name of the third eyelid in cats?

- a. Levator palpebra
- b. Nictitating membrane
- c. Medial canthus
- d. Descemet's membrane

10. Which vitamin is water soluble?

- a. Vitamin A
- b. Vitamin B
- c. Vitamin E
- d. Vitamin K

11. Which term best describes a change in normal chromosome number?

- a. Mutation
- b. Aberration
- c. Deletion
- d. Adaptation

12. What is one role of iron in the body?

- a. Aids in glucose production
- b. Transports waste from the bloodstream
- c. Involved with hemoglobin formation
- d. Prevents grass tetany if in high enough levels in the blood

13. Which mineral is necessary for the absorption and utilization of Vitamin E?

- a. Calcium
- b. Phosphorus
- c. Copper
- d. Selenium

14. Which of the following provides the least amount of nutrients to birds and other exotic species?

- a. Millet
- b. Lettuce
- c. Dandelion leaf
- d. Spinach

15. What is the average length of gestation in dogs?

- a. 56 days
- b. 63 days
- c. 70 days
- d. 77 days

16. Which animal is an induced ovulator?

- a. Cat
- b. Dog
- c. Goat
- d. Horse

17. Which pair of genes may cause various genetic abnormalities or even death when expressed?

- a. Homozygous recessive
- b. Homozygous dominant
- c. Heterozygous
- d. Codominant

18. Which is **not** a task that can legally be performed by a paraprofessional?

- a. Administer a feline leukemia vaccine
- b. Apply a bandage to a patient's leg
- c. Administer medication to a boarding animal
- d. Write a prescription for a patient

19. What does MSDS stand for?

- a. Material Safety Data Sheet
- b. Molecular Surface of Disease Substitution
- c. Material Score & Data Sheet
- d. Mean State of Disease Submission

20. In which situation would the animal's energy requirement generally be the lowest?

- a. Pregnant doe in November
- b. Lactating doe in April
- c. Buck in July
- d. All need the same energy

21. Which of the following is an example of passive immunity?

- a. A Kitten drinking colostrum
- b. A kitten drinking milk replacer
- c. A dog vaccinated subcutaneously against rabies
- d. A dog vaccinated intranasally against *Bordetella*

22. Which is a sign of submission, fear, or illness?

- a. Tucked tail
- b. Making eye contact
- c. Ears up and forward
- d. Laying down on the exam table

23. Ethylene glycol can cause severe damage to which organ?

- a. Liver
- b. Kidney
- c. Pancreas
- d. Ovary

24. What is generally **not** considered a congenital anomaly?

- a. Umbilical hernia
- b. Six toes on both front paws
- c. Cleft palate
- d. Arthritis

25. Which is/are **not** included in the six major classifications of diseases?

- a. Toxins, Trauma
- b. Nutrition, Neoplasm
- c. Degenerative
- d. Mutations

26. What are the three types of animal restraint?

- a. Physical, psychological, and hypnotic
- b. Traumatic, chemical, and physical
- c. Chemical, hypnotic, and psychological
- d. Chemical, psychological, and physical

27. The phenotype of an animal is

- A) All the genes possessed by the animal
- B) The union of gametes carrying different alleles
- C) The physical appearance of an animal
- D) The term used to describe a heterozygous condition

28. What is the vector for heartworm?

- A) Flies
- B) Ants
- C) Mosquitoes
- D) Gnats

29. An average adult cat should have a diet that has ____ % protein.

- A) 18%
- B) 21%
- C) 25%
- D) 32%

30. ____ is an example of a Spitz Breed.

- A) Schnauzer
- B) Keeshound
- C) Chow Chow
- D) St. Bernard

31. The heart of a cat has:

- A) One chamber
- B) Two chambers
- C) Three chambers
- D) Four chambers

32. What is the average length of a rabbit's pregnancy (in months)?

- A) ½ of a month.
- B) 1 month
- C) 1 ½ months
- D) 2 months

33. In birdseeds, cereal seeds contain higher _____ compared to oil seeds.

- A) Carbohydrates
- B) Proteins
- C) Fat
- D) Sugar

34. The _____ is a crustacean that buries its head into the fish's tissue.

- A) Fish louse
- B) Anchor worm
- C) Blood worm
- D) Hydatid

35. The large intestine is made up of the

- A) jejunum, ileum and duodenum
- B) rumen, omasum and abomasum
- C) rumen, reticulum and omasum
- D) cecum, colon and rectum

36. A puncture wound to your dog may result in

- A) distemper
- B) hepatitis
- C) leptospirosis
- D) tetanus

37. A smooth muscle is found in the:

- A) Back
- B) Neck
- C) Stomach
- D) heart

38. Which of the following dogs is prone to back problems?

- A) Chow Chow
- B) Dachshund
- C) Labrador Retriever
- D) Poodle

39. Which breed of cat lacks a tail?

- A) Malayan
- B) Irish Setter
- C) Manx
- D) Tabby

40. Due to the ability of a cat to synthesize these vitamins, they are **not** required in a cat's diet.

- A) C and K
- B) B and C
- C) A and K
- D) A and D

41. The measure of acidity in an aquarium is read on the _____ scale.

- A) pH
- B) AC/DC
- C) Hydrometer
- D) Fluorescent scale

42. Muscles attach to bones by means of:

- A) ligaments
- B) tendons
- C) bones
- D) gristle

43. Which of the following is not a RNA base?

- A) Adenine
- B) Uracil
- C) Thymine
- D) Cytosine

44. Fluorescent lighting is used for aquariums because it

- A) radiates heat.
- B) reproduces the sun's light spectrum
- C) is less expensive than incandescent
- D) is not harmed by water

45. What is the term for a feline giving birth?

- A) queening
- B) kindling
- C) whelping
- D) farrowing

46. What age can rabbits become sexually mature?

- A) less than 3 months
- B) 3 to 8 months
- C) 8 to 12 months
- D) over 12 months

47. Where is the egg shell deposited in the avian reproductive system?

- A) infundibulum
- B) isthmus
- C) uterus
- D) cloaca

48. This is the most basic nutrient in an animal's diet.

- A) vitamins
- B) protein
- C) water
- D) carbohydrates

49. This amino acid must be included in all feline diets.

- A) taurine
- B) thiamine
- C) folic Acid
- D) biotin

50. What life stage requires the most protein in its diet?

- A) growing puppy
- B) young adult
- C) middle aged adult
- D) senior adult

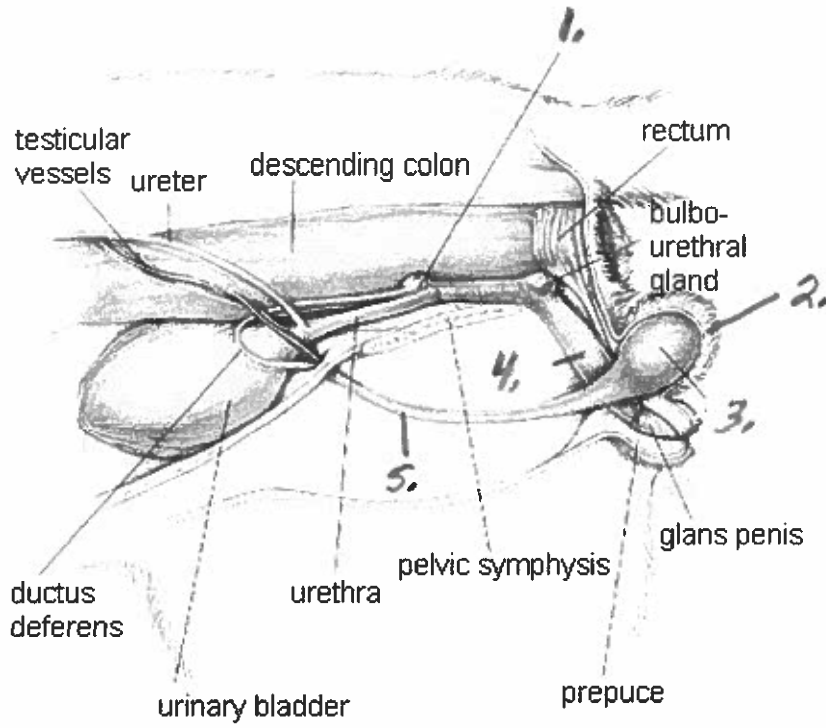
**2016 University of Minnesota Winter Invitational
Small Animal Care CDE Exam**

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|-----|---|-----|---|
| 1. | C | 26. | D |
| 2. | A | 27. | C |
| 3. | C | 28. | C |
| 4. | B | 29. | C |
| 5. | B | 30. | B |
| 6. | A | 31. | D |
| 7. | D | 32. | B |
| 8. | C | 33. | A |
| 9. | B | 34. | B |
| 10. | B | 35. | D |
| 11. | B | 36. | D |
| 12. | C | 37. | C |
| 13. | D | 38. | B |
| 14. | B | 39. | C |
| 15. | B | 40. | A |
| 16. | A | 41. | A |
| 17. | A | 42. | B |
| 18. | D | 43. | C |
| 19. | A | 44. | B |
| 20. | C | 45. | A |
| 21. | A | 46. | B |
| 22. | A | 47. | B |
| 23. | B | 48. | C |
| 24. | D | 49. | A |
| 25. | D | 50. | A |

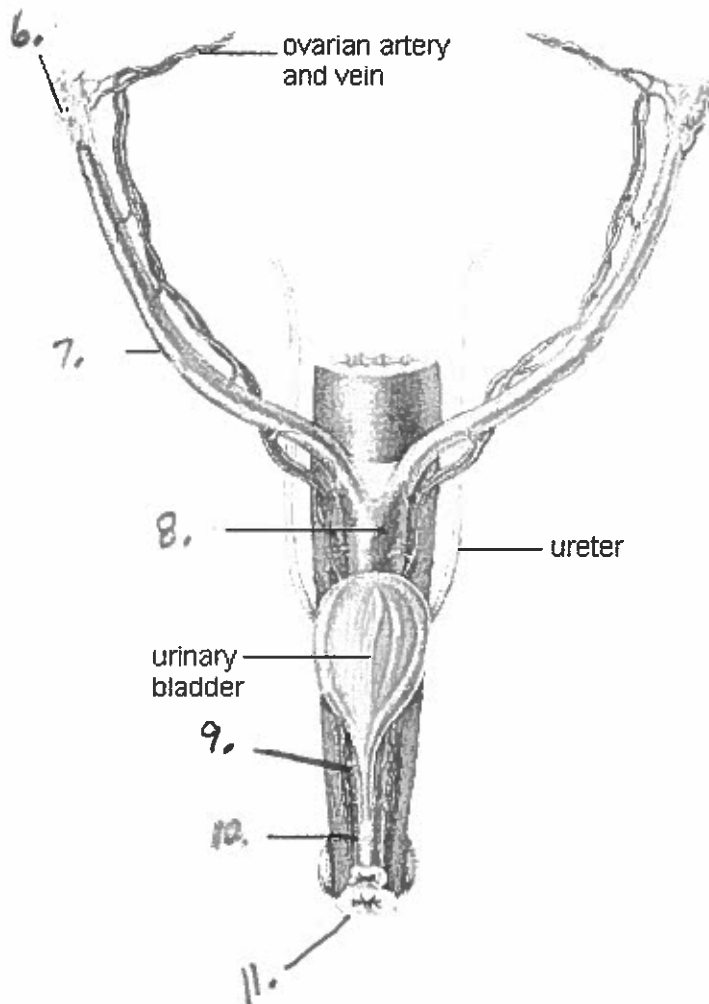
Exam

Anatomy- Reproductive system of a male cat

*Do Not Write
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USE WORD BANK*

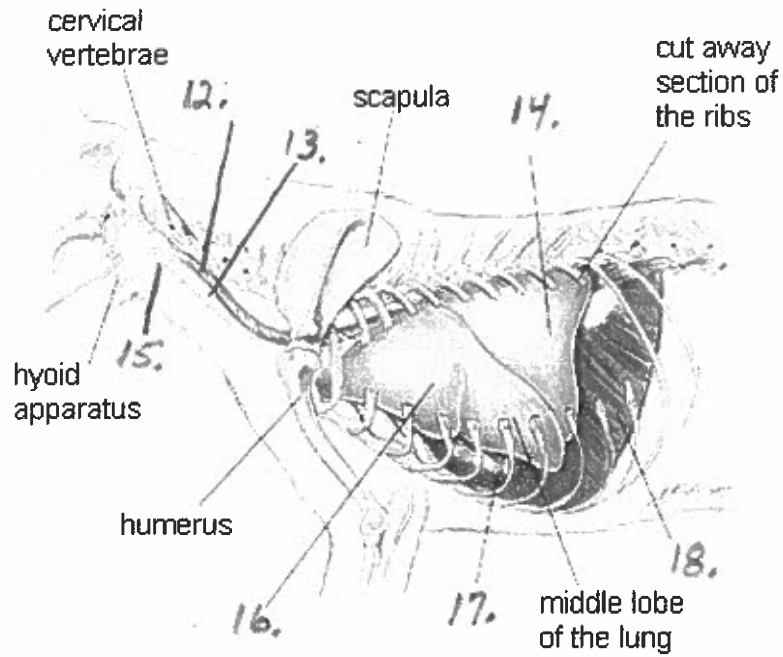


Female dog reproductive system

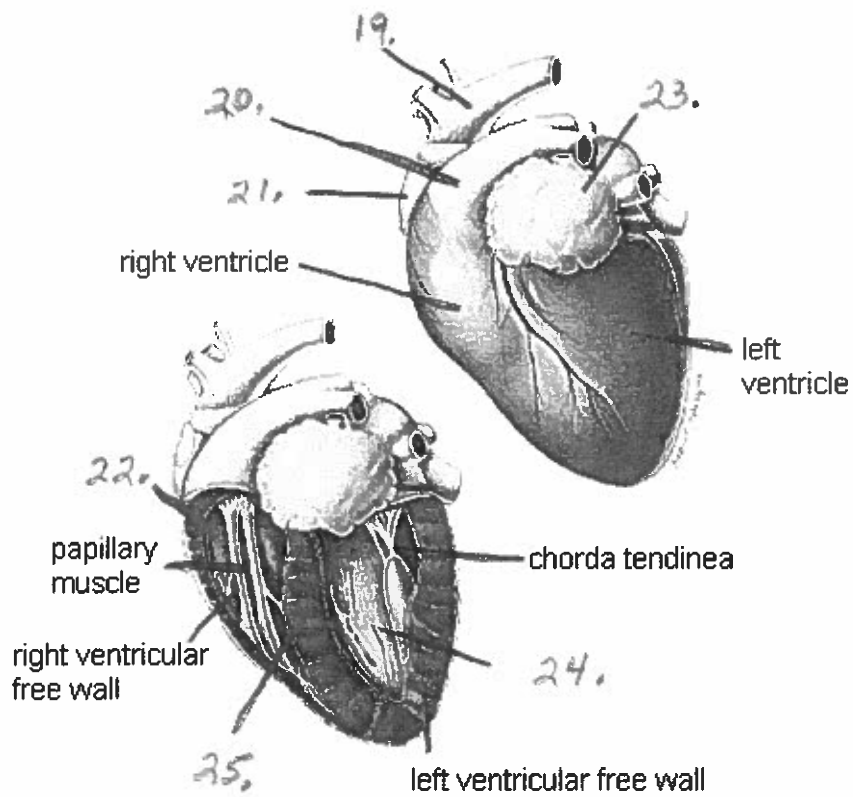


(Continued on back of Page)

Respiratory System of a cat



Cardio-vascular System of a cat



Anatomy Practicum Word Bank

Words may be used more than once.

Place answers in ID section 2 (Bottom of back side of scantron)

Vascular Systems

19 101 Aortic arch

____ 102 Aortic valve

____ 103 Inferior Vena Cava

23 104 Left Atrium

24 105 Left Ventricle

____ 106 Mitral valve

____ 107 Pulmonary Valve

21 108 Right Atrium

22 109 Right Ventricle

25 110 Septum

____ 111 Superior Vena Cava

____ 112 Tricuspid Valve

20 113 Pulmonary Artery

____ 114 Pulmonary Veins

Respiratory Systems

____ 215 Alveoli

____ 216 Bronchioles

____ 217 Bronchi

18 218 Diaphragm

12 219 Esophagus

____ 220 Epiglottis

17 221 Heart

____ 222 Hard Palate

15 223 Larynx

____ 224 Mouth

____ 225 Nasal Cavity

____ 226 Nose

____ 227 Pleural Cavity

____ 228 Pleural membranes

____ 229 Rings of cartilage

____ 230 Soft palate

____ 231 Tongue

____ 232 Tonsil

13 233 Trachea

16 234 Cranial lobe of the lung

14 235 Caudal lobe of the lung

Reproductive Systems

9 334 Cervix

____ 335 Epididymis

____ 336 Fallopian Tube

6 337 Ovary

4 338 Penis

1 339 Prostate Gland

2 340 Scrotal Sac

____ 341 Seminal Vesicle

3 342 Testis

____ 343 Urogenital Orifice

7 344 Uterine Horn

8 345 Uterus

10 346 Vagina

5 347 Vas Deferens

11 348 Vulva

2016 U of MN Invitational Small Animal CDE Sales and Kennel Management Practicum # 2

You are the owner of Wynn Kennels where you breed St. Bernards. Your dogs work and show. You feed Eukanuba large breed performance and growth formula to your dogs. You buy your dog food in bulk quarterly. You are currently feeding the following dogs for this quarter:

8 bitches 14 cups 2x/day
2 male dogs 4 cups 2x/day

8 pups 12 cups 2x/day
6 pups 14 cups 2x/day

33# Lifestage Large Breed \$29.99

33# Lifestage Puppy Large Breed \$34.99

(Use 13 weeks per quarter One cup= 8 oz. 16 oz. = 1 pound)

You must determine how much performance and puppy dog food to order for the quarter and how much it will cost. Bubble in your answers on the Assessment and Solution area of the scantron. (5pts./question)

1. How much dog food do the adult dogs eat each week?
 - A. 96 lbs.
 - B. 116 lbs.
 - C. 126 lbs.
 - D. 148 lbs.
2. How many bags of dog food will Wynn Kennels have to buy this quarter (round up to whole bags)?
 - A. 20 bags
 - B. 30 bags
 - C. 40 bags
 - D. 50 bags
3. How much puppy food do the 14 pups eat each week?
 - A. 148 lbs.
 - B. 164 lbs.
 - C. 182 lbs.
 - D. 196 lbs.
4. How many bags of puppy food will Wynn Kennels have to buy this quarter (round up to whole bags)?
 - A. 58 bags
 - B. 72 bags
 - C. 76 bags
 - D. 84 bags
5. How much will Wynn Kennels pay for the dog and puppy food purchased?
 - A. \$ 1,499.50
 - B. \$ 2,519.28
 - C. \$ 3,637.78
 - D. \$ 4,018.78

(Questions 6-10 are on the back side of this page)

6. If the total cost of the dog food was \$2546.78 The store has a 12% discount special. What is the actual cost?

- A. \$ 2,093.17
- B. \$ 2,137.17
- C. \$ 2,241.17
- D. \$ 2,353.17

7. The veterinarian bill for the 14 pups was \$ 196.56. How much was the cost per pup?

- A. \$ 14.04
- B. \$ 16.04
- C. \$ 18.04
- D. \$ 20.04

Boarding

Boarding prices are determined by the size and weight of the pet being boarded. Dogs up to 30 pounds are charged at the rate of \$7.00 per day. Dogs 31 -80 pounds are charged at the rate of \$ 9.00 per day. Dogs 81 pounds and over are charged at the rate of \$ 10.00 per day. We offer a 25% discount to first-time boarders for boarding fees and 10% discount on boarding fees to owners who board multiple pets at the same time. Guests requesting a bath and grooming before going home are not charged for boarding on the day the guest leaves but sales tax applies.

Customer Joe Smith has a dog named Duke who is a St. Bernard dog (over 81#).

Check in on November 2 Check out on November 7 1st time customer
Owner wishes to have Duke bathed and groomed before being picked up and returning home.

8. How much is the boarding cost (before discounts)?

- A. \$ 36.00
- B. \$ 40.00
- C. \$ 45.00
- D. \$ 50.00

9. How much would the boarding discount be?

- A. \$ 7.50
- B. \$ 10.00
- C. \$ 12.50
- D. no discount

10. It would cost \$ 70.00 to have Duke groomed. What would be the total cost if sales tax is 6.875%

- A. \$ 70.00
- B. \$ 74.81
- C. \$ 75.51
- D. \$ 76.21

**2016 U of MN Invitational Small Animal CDE
Sales and Kennel Management Practicum # 2 Key**

1. C $36\text{cups} = 18\# \times 7 = 126\#$
2. D $126\# \times 13/33\# = 50\text{ bags}$
3. C $52\text{ cups} = 26\# \times 7 = 182\#$
4. B $182\# \times 13/33\# = 72\text{ bags}$
5. D $50 \times \$29.99 + 72 \times \$34.99 = \$ 4,018.78$
6. C $\$2546.78 - (\$2546.78 \times 0.12) = 2241.17$
7. A $\$196.56/14 = \$ 14.04$
8. D $\$10 \times 5\text{ days} = \50.00
9. C $\$50.00 \times .25 = \$ 12.50$
10. B $\$ 70.00 \times 1.06875 = \$ 74.81$

2016 U of MN Winter Invite

Small Animal ID KEY

1	111	39	319
2	605	40	403
3	312	41	104
4	506	42	210
5	124	43	309
6	604	44	216
7	318	45	402
8	214	46	104
9	509	47	218
10	123	48	504
11	306	49	127
12	109	50	406
13	602		
14	221		
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