



Academy of Veterinary Nutrition Technicians Advanced Knowledge List

All qualified candidates will have demonstrated advanced veterinary technician nutrition knowledge. All VTS (Nutrition) candidates shall demonstrate advanced knowledge and expertise in the area of veterinary nutrition.

Applicant's Name _____

The applicant is required to demonstrate advanced knowledge of veterinary nutrition. The AVNT recommends utilizing the attached list as a guide, but acknowledges this list may not be all inclusive.

KNOWLEDGE LIST:

| <u>1. Advanced Knowledge List</u> | <u>Signature</u> | <u>Date</u> |
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| 2. Identify 6 classes of nutrients in mammals | | |
| 3. Kcal amts for each class of nutrients | | |
| 4. Essential proteins for dogs and cats | | |
| 5. Non-essential proteins for dogs and cats | | |
| 6. Mineral functions and effects of excesses and deficiencies | | |
| 7. Vitamin functions and effects of excesses and deficiencies | | |
| 8. Antioxidant functions and identification | | |
| 9. Understand protein digestion in dogs and cats | | |
| 10. Understand fat digestion in dogs and cats | | |
| 11. Understand carbohydrate digestion in dogs and cats | | |
| 12. Estimate energy requirements for dogs and cats | | |
| 13. Calculate feeding amount based on energy | | |

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| requirements | | |
| 14. Who is AAFCO | | |
| 15. How can AAFCO certification be obtained? | | |
| 16. What are feeding trials? What are the requirements? | | |
| 17. Know how to read pet food labels | | |
| 18. What are the AAFCO food label guidelines? | | |
| 19. Key nutritional factors for an omnivore | | |
| 20. Key nutritional factors for a carnivore | | |
| 21. Key nutritional factors for an herbivore | | |
| 22. Key nutritional factors unique to cats | | |
| 23. Key nutritional factors unique to equines | | |
| 24. Key nutritional factors unique to avian | | |
| 25. Key nutritional needs during reproduction for cats and dogs | | |
| 26. Key nutritional needs during growth for cats and dogs | | |
| 27. Key nutritional needs for adult cats and dogs | | |
| 28. Key nutritional needs for senior cats and dogs | | |
| 29. Key nutritional needs for weight loss in cats and dogs | | |
| 30. Key nutritional needs for weight gain in dogs and cats | | |
| 31. Key nutritional factors for renal disease in dogs and cats | | |
| 32. Key nutritional factors for diabetic dogs and cats | | |
| 33. Key nutritional factors for cancer in dogs and | | |
| 34. Key nutritional factors for adverse food reactions in dogs and cats | | |
| 35. Key nutritional factors for osteoarthritis in dogs and cats | | |

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| 36. Key nutritional factors for urolithiasis/ FLUTD in dogs and cats | | |
| 37. Key nutritional factors for gastritis in dogs and cats | | |
| 38. Key nutritional factors for intestinal disease in dogs and cats | | |
| 39. Key nutritional factors for constipation in dogs and cats | | |
| 40. Key nutritional factors for cardiac disease in dogs and cats | | |
| 41. Key nutritional factors for hepatic disease in dogs and cats | | |
| 42. Key nutritional factors for pancreatitis in dogs and cats | | |
| 43. Key nutritional factors for megaesophagus in | | |
| 44. Key nutritional factors for esophageal strictures in dogs and cats | | |
| 45. AAFCO official feed definitions | | |
| 46. United States FDA responsibilities | | |
| 47. What is digestibility? | | |
| 48. How is digestibility determined? | | |
| 49. What are “product families” | | |
| 50. What are “lead products” | | |
| 51. Carbohydrate classes and effects: insoluble, moderately soluble, soluble | | |
| 52. Coax feeding techniques | | |
| 53. Signs of food aversions | | |
| 54. Signs of nausea related to feeding | | |
| 55. Assisted feeding techniques, pros and cons for each technique | | |
| 56. Appropriate food for different assisted feeding techniques | | |
| 57. What is TPN? | | |
| 58. What is PPN? | | |

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| 59. Indications for use of TPN | | |
| 60. Indications for use of PPN | | |
| 61. Complications associated with TPN | | |
| 62. Complications associated with PPN | | |
| 63. What is Refeeding syndrome? Avoid, recognize, treatment | | |
| 64. Non-veterinary treats and health associated problems (chocolate, onions, | | |
| 65. Assess hospitalized/ outpatient animals for nutritional risk status | | |
| 66. Evaluate homemade diets for potential risks | | |
| 67. Be familiar with methods used to access nutritional information on OTC and prescription diets | | |
| 68. Understand how nutrition can affect Acid-base balance | | |
| 69. Recognize physical and laboratory signs of nutritional deficiencies and | | |
| 70. Able to critically evaluate scientific literature and advertising claims regarding nutrients and | | |
| 71. Benefits/detriments to homemade diets in dogs and cats | | |
| 72. Benefits/ detriments to vegetarian diets in dogs and cats | | |
| 73. Benefits/ detriments to vegan diets in dogs and cats | | |
| 74. Benefits/ detriments to raw food diets in dogs and cats | | |
| 75. Understand anatomy and physiology for GI tract in dogs and cats | | |

Please print the names of all persons who have signed this form attesting to your mastery of advanced nutrition knowledge.

Name _____ Credentials _____ Date _____

Phone Number _____ Email _____

Name _____ Credentials _____ Date _____

Phone Number _____ Email _____

Name _____ Credentials _____ Date _____

Phone Number _____ Email _____

Name _____ Credentials _____ Date _____

Phone Number _____ Email _____

By signing below, I the AVNT applicant, swear that the information and signatures on this document are not forged and that the information above is true and ethical.

(Applicant's Signature) (Date) _____

(Please print your name) _____