

Specific Competencies and Skills Tested in this Assessment:

Safety and Sanitation

- Maintain a safe and sanitary environment
- Identify modes of transmission/prevention of zoonotic disease
- Identify and properly handle contaminated and hazardous material and chemicals

Animal Care Management

- Handle and restrain animals for various procedures
- Identify breeds and sex of animals (e.g., dogs, cats, rodents, rabbits, reptiles, birds)
- Feed and water animals and maintain sanitary cages
- Identify and manage care for animals at different life stages
- Gather data and maintain accurate records on animals
- Recognize and interpret animal body language
- Identify external anatomy
- Recognize issues of animal overpopulation and discuss prevention methods and benefits
- Identify training and enrichment methods and equipment



Grooming

- Select, identify, and properly use grooming equipment
- Select and prepare shampoos and rinses
- Trim nails on animals



Specific Competencies and Skills continued:

Genetics and Reproduction

- Explain the different stages of mitosis and meiosis
- Define specific genetic and reproductive terminology, including sex-linked traits
- Use the Punnett Square to solve monohybrid cross, dihybrid cross, and quantitative factors
- Read and evaluate a pedigree
- Explain factors that affect reproductive health and fertility
- Identify and explain functions of reproductive organs
- Explain the role of hormones and factors that affect them
- Explain different phases of the reproductive/estrous cycle
- Explain the alternative methods of insemination
- List signs of parturition and manage care in mammals and reptiles

Management of Small Animal-Related Businesses

- Identify professional communications and service
- Schedule appointments and maintain appointment book
- Record/file client data
- Perform and maintain inventory and financial records
- Demonstrate business mathematics

Animal First Aid

- Identify medical terminology, equipment, and supplies
- Explain arterial and venous bleeding and identify pressure points
- Identify symptoms and treatment of shock
- Describe appropriate ways of approaching an injured animal
- Perform physical assessment/triage, including TPR
- Describe the ABCs of CPR procedures
- Prepare slides and operate various types of microscopes
- Operate scales and weigh/measure animals properly
- Identify and describe routes of medication administration
- Identify surgical instruments and prepare surgical packs
- Describe methods of anesthesia administration and monitoring
- Perform dosage rates and conversion



Specific Competencies and Skills continued:

Health and Disease Control

- Perform examinations for internal and external parasites, including fecal exams, ear cytology, and skin scraping
- Identify common internal and external parasites
- Explain the differences between infections and non-infectious diseases, viral and bacterial
- Explain and describe quarantine/isolation methods
- Describe the body's response when exposed to disease (e.g., immunity, antibody/antigen)
- Explain how diseases are transmitted and prevention methods
- List characteristics of a healthy animal
- Discuss vaccination protocols



Nutrition

- Identify and explain functions of digestive system organs
- Explain the difference between a ruminant, cecal fermenter, non-ruminant, and a bird
- List the six nutrient groups and their function and sources
- Determine type of food to feed animals
- Read and interpret feed labels and follow appropriate storage methods
- List diseases associated with nutritional deficiency and/or toxicity

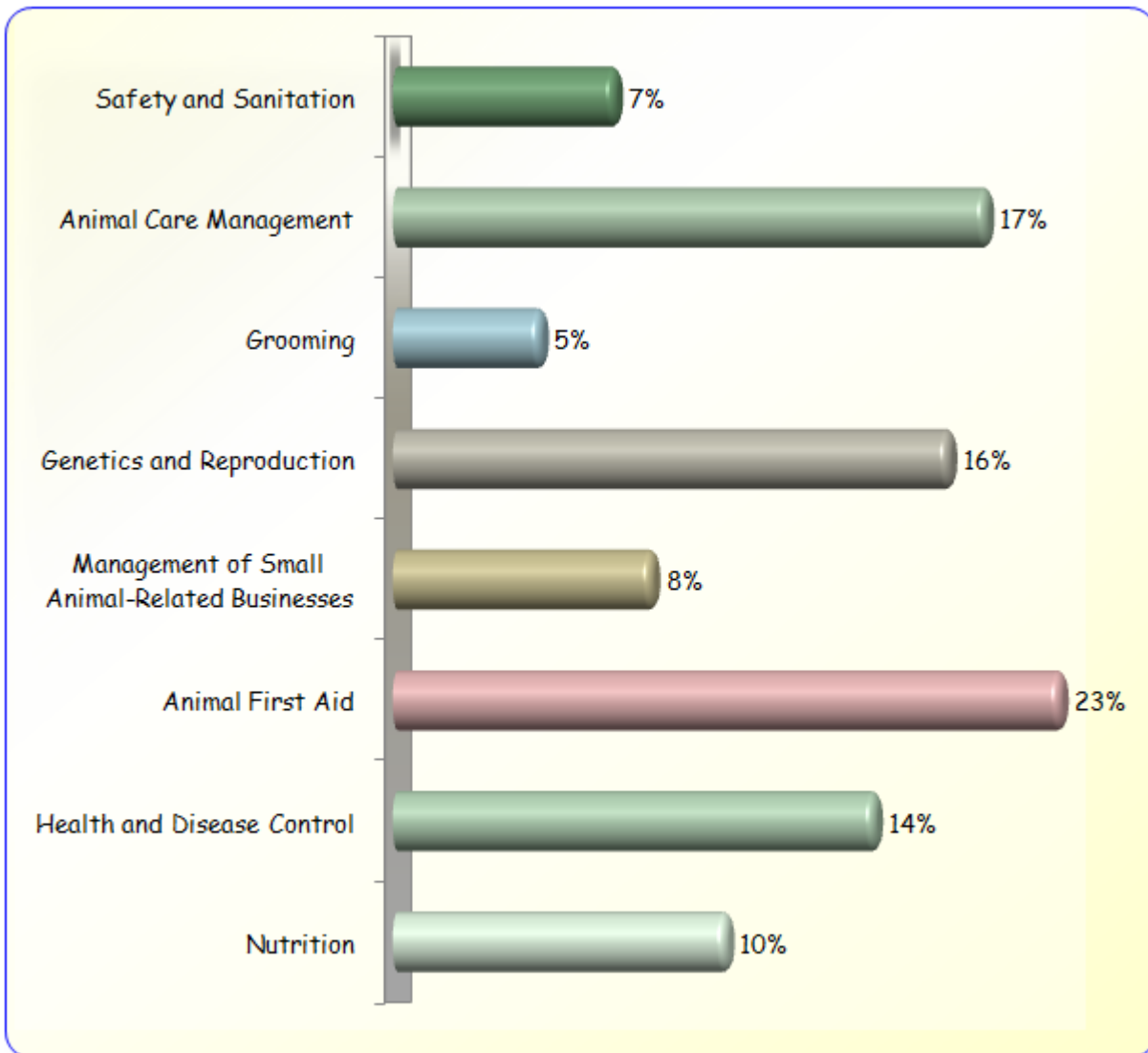


Written Assessment:

Administration Time: 3 hours

Number of Questions: 196

Areas Covered:



Sample Questions:

The masking of one allele over the genes on another locus is called

- A. codominance
- B. epistasis
- C. meta-inheritance
- D. intermediate inheritance

Bleeding of a nail can be stopped by using

- A. scissors
- B. styptic powder
- C. cotton gauze
- D. a bandage

When reading a pedigree, the dam is the

- A. father
- B. grandfather
- C. mother
- D. litter mate

A female cat is called a

- A. boar
- B. queen
- C. bitch
- D. sow

Ingredients in pet food are listed in order by percentage of

- A. electrolytes
- B. protein content
- C. total weight
- D. moisture



Performance Assessment:

Administration Time: 2 hours and 30 minutes

Number of Jobs: 6

Areas Covered:

10% Identify Tools and Equipment

Identification of tools/equipment, correct spelling of grooming equipment, and time to complete Job 1.

28% Restraint and Sex Determination of Small Animals

For three different small animals, remove from cage, pick up/lift correctly, restrain, determine sex, and time to complete Job 2.

15% Identify Parasites

Placed prepared slides on microscope stage, slides focused properly, pointer placed on egg, internal parasite eggs identified, external adult parasites identified, and time to complete Job 3.

24% Read Glass Thermometers and Fill Syringes

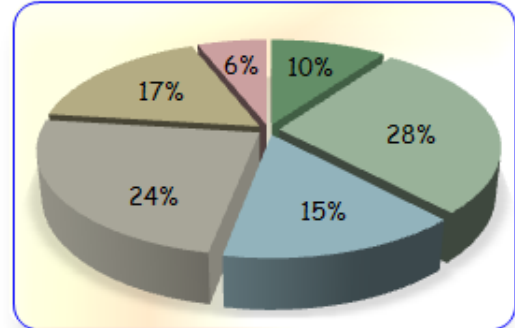
Accuracy of thermometer #1 (above 100°F) reading thermometer #2 (below 100°F) read and recorded within allotted time, select appropriate syringes and needles, draw-up fluid in syringes, and time to complete Job 4.

17% Canine: Safety, Handling, Restraint, Identification of External Anatomy of the Dog

Lifting technique/body mechanics, dog properly supported, dog placed on table, dog restrained for cephalic blood draw, obtain pulse and respiration reading, identification of external anatomy, and time to complete Job 5.

6% Determine Proper Diet for Animals

Selection of appropriate diet cards and time to complete Job 6.



Sample Job: Identify Tools and Equipment

Maximum Time: 20 minutes

Participant Activity: The participant will identify and correctly spell each of the displayed pieces of grooming equipment.



The Association for Career and Technical Education (ACTE), the leading professional organization for career and technical educators, commends all students who participate in career and technical education programs and choose to validate their educational attainment through rigorous technical assessments. In taking this assessment you demonstrate to your school, your parents and guardians, your future employers and yourself that you understand the concepts and knowledge needed to succeed in the workplace. Good Luck!

