



SAMPLE ASSESSMENT

SMALL ANIMAL SCIENCE

Test Code: 7413

Version: 01

Specific Competencies and Skills Tested in this Assessment:

Safety and Personal Hygiene

Demonstrate use of fire extinguisher
Follow safety procedures in classroom and laboratory
Maintain a safe and sanitary environment
Identify modes of transmission/prevention of zoonotic disease
Properly handle chemicals
Identify and dispose of contaminated and hazardous material properly
Follow electrical safety rules

Animal Care Management and Restraint

Restrain animals
Identify sex of animals
Trim nails and/or teeth on animals
Water & properly feed all animals daily
Maintain clean and sanitary cages
Maintain records on the following animals:
Breed and raise young to weaning age

Grooming

Identify grooming equipment
Identify selected shampoos
Mix flea rinse
Apply muzzle to dog
Properly use grooming noose
Properly blend with thinning shears

Small Animal Science continued

Genetics and Reproductions

- Explain the different stages of mitosis
- Explain the different stages of meiosis
- Define specific genetic terminology
- Use the punnett square and solve the following:
 - monohybrid cross
 - dihybrid cross
 - quantitative factors
- Identify sex-linked, incompletely sex linked, holandric, sex-limited, and sex-influenced traits
- Read and evaluate a pedigree
- Identify and explain functions of reproductive organs
- Define gestation
- Explain the role of hormones in the reproductive/estrus cycle
- List the four phases of the estrous cycle
- List different types of estrous cycles in domesticated animals
- Explain the alternative methods of insemination
- List signs of estrus
- List signs of parturition

Business Management

- Prepare sales receipt
- Properly answer phone/record information
- Properly keep appointment book
- Record/file client info on client index cards
- Maintain shop inventory
- Maintain financial records
- Demonstrate sales mathematics

Animal First Aid

- Identify 15 items to keep in a first aid box
- Explain difference between arterial and venous bleeding
- List four pressure points
- Apply pressure bandage to an animal
- List four symptoms of shock and treatment to be given
- Show by example how to approach an injured dog
- List six categories of physical assessment from most to least serious
- Perform CPR on dummy dog
- Define the ABC's
- Define specific first aid terminology
- Given case studies, describe possible first aid treatment

Clinical/Nursing Skills

- Operate monocular microscope
- Wrap surgical pack
- Operate scale and weigh animal properly
- Perform TPR on animal
- Identify injection sites and types of injections:
- Identify selected surgical instruments
- Identify different size needles and syringes
- Properly administer oral medications
- List methods in which anesthesia is administered
- Mathematically calculate dosage rates

Small Animal Science continued

Dog and Cat Care and Management

Understand the body language of the dog and cat
Identify external anatomy
Identify dog breed recognized by the American Kennel Club
Describe process and justification of neutering
Define specific dog/cat terminology
Identify and demonstrate use of training equipment
List the possible vaccinations available for dog/cat
Identify ten long haired and ten shorthaired breeds of cats

Health and Disease Control

Perform fecal floatation
Perform fecal smear
Identify roundworm, hookworm, tapeworm, whipworm & heartworm from prepared slides
Explain the differences between infectious and non-infectious diseases
Properly perform skin scraping
Identify external parasites
Explain quarantine and place animal in Quarantine
Describe the antibody/antigen response
Describe the process of immunity
Explain how diseases are transmitted
Explain how diseases can be prevented
List characteristics of a healthy animal

Nutrition

List the 6 nutrient groups and their function and sources
Determine type of food to feed animal
Figure cost of feed (price per pound)
Explain the difference between a ruminant, non-ruminant, and a bird
Properly read a feed label
List diseases associated with nutritional deficiency and/or toxicity

Leadership and Job Skills

Prepare a resume and portfolio
Explain and identify common sources for employment
Compose a cover letter and thank you letter, a cover letter, business and thank you letter
Perform a mock interview
Complete a job application
Send a fax and email
Demonstrate proper business etiquette
Conduct a meeting following Parliamentary Procedure

Small Animal Science continued

Written Assessment:

Administration Time: 3 hours
Number of Questions: 152

Areas Covered:

10%	Safety and Personal Hygiene
10%	Animal Care, Management and Restraint
6%	Grooming
10%	Genetics/Reproduction
10%	Business Management
8%	Animal First Aid
10%	Clinical/Nursing Skills
10%	Dog and Cat Care and Management
10%	Health and Disease
10%	Nutrition
6%	Leadership and Job Skills

Sample Questions:

Which of the following diseases is associated with an extreme deficiency of calcium?

- A. pellagra
- B. scurvy
- C. rickets
- D. grass tetany

Why do parasite eggs come to the top during a fecal floatation?

- A. They are attracted to light.
- B. They swim to the top.
- C. They are heavier than the solution.
- D. They are lighter than the solution.

When reading a pedigree, the “dam” is the

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

Which of the following animals can be properly restrained between the thumb and forefinger?

- A. hamster
- B. snake
- C. rabbit
- D. cat

Small Animal Science continued

When picking up a heavy dog, you should lift with the muscles of your

- A. legs
- B. arms
- C. back
- D. waist

Performance Assessment:

Administration Time: 1 hour, 20 minutes
Number of Jobs: 6

10% **Identify Grooming Equipment**
Proper identification/spelling of grooming equipment

15% **Restrain and Sex Determination of Small Animals**
Pick-up, restrain, and determine the sex of small animals

15% **Identify Internal Parasites**
Identify parasite and egg on microscopic slides

10% **Read Glass Thermometer**
Properly read two separate preset glass thermometers

40% **Canine: Safety, Handling, Restraint, Identification of External Anatomy**
Properly lift dog, apply grooming noose and muzzle, clip nail, and identify specified areas of external anatomy of a medium-sized dog

10% **Communication Skills**
Greet customer and complete a grooming receipt

Sample Job: Identify Grooming Equipment

Estimated Job Time: 15 minutes

Participant Activity:

Identify and correctly spell each of ten displayed pieces of grooming equipment.