

# Agriculture, Food and Natural Resources: Veterinary Assisting 4 (2021): Grades 9-12

Differentiate between animal welfare and animal rights. The student will be able to: 9.0

- 1 Define animal welfare and animal rights. 9.1
- 2 Compare and contrast between animal welfare and animal rights. 9.2
- 3 Identify animal welfare and animal rights advocate groups. 9.3
- 4 Debate current events concerning animal welfare and animal rights. 9.4
- 5 Describe animal cruelty and the consequences of cruel treatment of animals. 9.5

Explain the role of animals in research. The student will be able to: 10.0

- 1 Describe the history of the role of animals in research. 10.1
- 2 Discuss medical advances made possible through the use of animals in research. 10.2
- 3 Define USDA and explain its roles in using animals for research. 10.3
- 4 Describe the role of the Institutional Animal Care and Use Committee (IACUC) with regard to animal research facilities. 10.4
- 5 Explain the controversy over using animals in research. 10.5
- 6 Identify organizations that are in favor of and those that are against the use of animals in research. 10.6
- 7 Develop a personal position on the use of animals in research and support that position. 10.7
- 8 Explain how biotechnology has affected animal research. 10.8
- 9 Debate the use of cloning for research purposes. 10.9

Maintain and analyze records. The student will be able to: 11.0

- 1 Discuss the legal requirements of maintaining animal health records, and maintain and analyze animal health records. 11.1

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- 2 Maintain and analyze basic business records (inventory, depreciation, receipts, expenses), using computer applications.** 11.2
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- 3 Explain the process of scheduling appointments.** 11.3
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- 4 Demonstrate admissions and discharges for boarders or non-medical cases.** 11.4
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- 5 Demonstrate filing and retrieving of records from both numerical and alphabetical filing systems.** 11.5
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- 6 Demonstrate computer and keyboarding skills.** 11.6
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- 7 Demonstrate data collection from organized records.** 11.7
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- 8 Discuss legal requirements of veterinary medical records to include:: (1)establish veterinarian-client-patient relationship, (2)contain owner and patient information, (3)contain patient history, and (4) contain contemporaneously written medical procedures** 11.8
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- 9 Describe the duties of an office or hospital staff member as outlined by NAVTA which includes:** 11.9
- a Greet pet owner/client, identifies his/herself by name and as veterinary assistant in a professional manner 11.9.A
  - b Obtain or confirm pet owner/client and pet information including pet owner/client's name, address and phone numbers; pet's name, species, breed, color, sex and neutered/not neutered, and age or birth date 11.9.B
  - c Discuss process for recording new information and/or confirms existing information on medical record using appropriate medical terminology and concise notations. Include current date and reason for appointment. 11.9.C
  - d Obtain and record the pet's vital signs (TPR, MM, & CRT) and weight with minimal restraint to the pet. 11.9.D
  - e Leave the exam room courteously indicating the veterinarian will be right in. 11.9.E
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- 10 Explain the importance of client/patient confidentiality.** 11.10
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**Explain proper sanitation for animal facilities. The students will be able to:** 12.0

- 1 Demonstrate proper sanitation techniques for an examination room, hospital facilities, surgical suites, kennel, cattery, paddock, rabbit hutch, and zoo.** 12.1
  - 1 Keep assigned work areas clean and organized 12.1.1
  - 2 Explain sanitary procedures including physical cleaning, disinfecting, and sterilizing 12.1.2
  - 3 Demonstrate proper cleaning protocols for kennels, runs, and enclosures including cleaning and disinfecting all sides of the kennel (floor, ceiling, walls, & door) and all items in the kennel (bowls, blankets, toys, etc.) 12.1.3
  - 4 List precautions to take when mixing or using multiple cleaning and disinfecting agents i.e. NEVER mix bleach with ammonia containing cleaners or disinfectants 12.1.4
  - 5 Change bedding materials in a timely and efficient manner. 12.1.5
  - 6 Demonstrate of the proper disposal of bedding and waste materials. 12.1.6
  - 7 Notify supervisor of needed repair or maintenance on cages, kennels, or stalls 12.1.7

**Explain diagnostic testing and use of equipment. The student will be able to:** 13.0

- 1 Explain the proper placement of a slide in the microscope and focus on 100X and 400X magnification** 13.1
- 2 Explain appropriate materials for cleaning the microscope** 13.2
- 3 Demonstrate the centrifugation of a sample** 13.3
- 4 Explain the purpose of the blood analyzer machine.** 13.4
- 5 Explain a urinalysis including:** 13.5
  - 1 List methods for urine collection commonly used in the veterinary practice 13.5.1
  - 2 Collect a free-caught urine sample using proper techniques for dogs 13.5.2
  - 3 Identify time and storage parameters for urine samples 13.5.3
  - 4 List precautions and safety factors in handling urine samples including personal protection equipment 13.5.4
- 6 Explain fecal test including:** 13.6
  - 1 Explain methods of collecting fecal samples. 13.6.1
  - 2 Identify time and storage parameters for fecal samples. 13.6.2
  - 3 Identify appropriate volume of feces for each method of testing. 13.6.3
  - 4 Demonstrate the correct technique for handling and preparing the fecal samples for analysis by flotation, sedimentation, and direct smear. 13.6.4
  - 5 Explain appropriate method of placing sample on microscope slide or cover slip. 13.6.5
  - 6 List precautions and safety factors in handling fecal samples including personal protection equipment. 13.6.6

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**7 Examine radiology, electrocardiogram and ultrasound imaging techniques and safety.** 13.7

- 1 Discuss restrictions from radiation exposure for pregnant women and minors. 13.7.1
- 2 Explain what a dosimeter badge does and who wears it and when. 13.7.2
- 3 Describe the area of exposure in the radiology room including direct beam and scatter radiation. 13.7.3
- 4 Explain the correct use of personal protection equipment including lead-shielded gowns, lead gloves, lead thyroid shield, lead glasses, and other lead protective wear. 13.7.4
- 5 Explain methods of restraint for positioning for radiographs including chemical restraint. 13.7.5
- 6 Explain the proper handling of radiographic film including safe light use. 13.7.6
- 7 Demonstrate the appropriate labeling of a radiograph including date, patient name, view or side of patient, machine settings, and film developing 13.7.7
- 8 Maintain radiograph log and filing of films. 13.7.8
- 9 Explain how digital radiography differs from film. 13.7.9

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**8 Describe the process for handling a suspected rabies patient, and the process for other deceased animals.** 13.8

- 1 List the common species which may transmit rabies to humans. 13.8.1
- 2 Explain the methods of transmission of rabies to animals and humans. 13.8.2
- 3 List the symptoms associated with rabies. 13.8.3
- 4 Explain the proper safety measures to follow when handling an animal suspected of having rabies. 13.8.4
- 5 Explain the procedure for euthanasia suitable as an explanation for a pet owner. 13.8.5
- 6 Discuss the grief process that an owner may experience on the loss of the pet. 13.8.6
- 7 Discuss the importance of presenting the body of the pet in a respectful and empathetic way. 13.8.7

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**Describe internal and external parasites and control methods. The student will be able to:** 14.0

**1 Set up fecal flotations or centrifuged fecal samples** 14.1

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**2 Identify ectoparasites fleas, ticks, lice, and mites and explain the life cycle and treatment and prevention methods** 14.2

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**3 Identify ova of endoparasites roundworms, hookworms, whipworms, strongyles and explain the life cycle and treatment and prevention methods** 14.3

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**4 Identify adult endoparasites roundworms, hookworms, whipworms, strongyles and heartworms** 14.4

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**5 Identify giardia and coccidia in fecal samples** 14.5

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**6 Identify tapeworm segments in fecal sample or on pet** 14.6