

2019 FFA Veterinary Science CDE Written Scenario

Being admitted to the profession of veterinary medicine, I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health and welfare, the prevention and relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge.

I will practice my profession conscientiously, with dignity, and in keeping with the principles of veterinary medical ethics.

I accept as a lifelong obligation the continual improvement of my professional knowledge and competence.

-Veterinarian's Oath, AVMA

One major premise of the Veterinarian's Oath is to "practice my profession... in keeping with the principles of veterinary medical ethics." What does this mean? Oxford Dictionary defines ethics as moral principles or a set of values that govern a person's behavior. Merriam-Webster Dictionary defines ethics as the discipline of dealing with what is right and wrong. Veterinarians are faced with making ethical medical decisions, deciding what is right or wrong, for animals on a daily basis.

While interviewing for an associate veterinarian position in a small animal clinic, you are asked your ethical standpoint on performing elective onychectomy procedures. Onychectomy, also known as declawing, is surgical amputation of the third phalanx to prevent cats from scratching and damaging household items. You are aware that declawing cats is not medically necessary, causes significant post-surgical pain, and has been linked to long-term behavior problems. You are also aware that declawing cats is required by many rental properties, is an acceptable method of preventing zoonotic disease transmission to immune-compromised people, and may reduce or prevent euthanasia or pet relinquishment.

Write a position statement discussing your personal stance on performing onychectomies. Explain why your personal stance on the controversial ethical issue of cat declaws is what it is. Include a discussion on the pros and cons of declawing cats within your position statement. (The American Association of Feline Practitioners Position Statement may be viewed as an example: <https://catvets.com/public/PDFs/PositionStatements/2017-DeclawingStatement.pdf>.)

2019 Vet Science CDE Exam

1. What equine viral disease is contagious among breeding horses? (1 point)
 - a. Influenza
 - b. Equine viral pneumonia
 - c. Equine viral arteritis
 - d. Equine viral abortion
2. How long is the estrous cycle in goats? (1 point)
 - a. 13 days
 - b. 18 days
 - c. 30 days
 - d. 21 days
3. Which of the following best describes the type of hoof possessed by sheep and goats? (1 point)
 - a. Odd-toed ungulate
 - b. Cloven hoof
 - c. True hooves; no dewclaws
 - d. Uncloven hoof
4. Which of the following describes the appearance of a goat's pupils? (1 point)
 - a. Horizontal rectangles
 - b. Vertical rectangles
 - c. Square
 - d. Circular
5. What are the small, grain-of-rice sized segments of a tapeworm called? (1 point)
 - a. Coccoids
 - b. Proglottids
 - c. Teguments
 - d. Operculums
6. Which of the following diseases does this horse likely have? (1 point)



- a. Equine Influenza
 - b. Strangles
 - c. Tetanus
 - d. Herpes Virus
7. Identify the following rabbit breed. (1 point)



- a. Hotot
 - b. Himalayan
 - c. Havana
 - d. Harlequin
8. Identify the following canine breed. (1 point)



- a. West Highland White Terrier
- b. Border Terrier
- c. Bull Terrier
- d. Norfolk Terrier

9. Identify the following canine breed. (1 point)



- a. Pomeranian
- b. Shih tzu
- c. Maltese
- d. Papillon

10. Which of the following diseases is a virus spread through the bite of an infected mosquito? (1 point)

- a. Potomac Horse Fever
- b. Epizootic Lymphangitis
- c. Vesicular Stomatitis
- d. Equine Encephalitis

11. Which of the following symptoms is characteristic of tetanus in horses? (1 point)

- a. Fever and nasal discharge
- b. Harsh, dry cough
- c. Fever, depression, and diarrhea
- d. Muscle stiffness and spasms

12. Which of the following parasite eggs is elliptical shaped, symmetrical, and has two opercula? (1 point)

- a. Ancylostoma caninum
- b. Trichuris vulpis
- c. Toxocara cati
- d. Dipylidium caninum

13. Identify the following canine breed. (1 point)



- a. Alaskan Malamute
- b. Akita
- c. Anatolian Shepard Dog
- d. Bernese Mountain Dog

14. What is the recommended location to dock a lamb's tail? (1 point)

- a. Caudal fold of the tail
- b. At least three tail vertebrae
- c. As close to the spine as possible
- d. At least three finger widths

15. What is the term used for a castrated male sheep? (1 point)

- a. Ram
- b. Ewe
- c. Wether
- d. Lamb

16. What is the correct anatomical term for the pronounced groove that divides the left and right side of the upper lip of sheep? (1 point)

- a. Frenulum
- b. Fontanelle
- c. Philtrum
- d. Sepal

17. Identify the following canine internal parasite. (1 point)



- a. Tapeworm
- b. Giardia
- c. Coccidia
- d. Whipworm

18. What is the average length of gestation for an ewe? (1 point)
- a. 90-110 days
 - b. 120-135 days
 - c. 135-150 days
 - d. 180-200 days
19. Where is the olecranon bone located in a sheep skeleton? (1 point)
- a. Hindleg
 - b. Foreleg
 - c. Endoscopy
 - d. Culture and Sensitivity
20. What anomaly do goats have in their mouth? (1 point)
- a. No molar teeth
 - b. No premolar teeth
 - c. No lower incisors
 - d. No upper incisors
21. Horses that have red urine after riding likely have what condition? (1 point)
- a. Bladder stones
 - b. Kidney disease
 - c. Urinary tract infection
 - d. Diarrhea
22. What respiratory problem is most commonly found in draft horses? (1 point)
- a. Laryngeal hemiplegia
 - b. Chronic obstructive pulmonary disease
 - c. Influenza
 - d. Choke
23. Which of the following is a recommended equine vaccination for traveling show horses, but is not considered a core vaccine? (1 point)
- a. Tetanus
 - b. Rabies
 - c. Strangles
 - d. West Nile
24. How often should a healthy, adult horse's teeth be floated? (1 point)
- a. Every 3 months
 - b. Annually
 - c. Every other year
 - d. Every 5-10 years
25. Identify the following cat breed. (1 point)



- a. Siamese
- b. Birman
- c. Maine Coon
- d. Norwegian Forest Cat

26. Identify the following rabbit breed. (1 point)



- a. Dutch rabbit
- b. English Spot
- c. Harlequin
- d. Polish rabbit

27. Identify the following canine internal parasite. (1 point)



- a. Tapeworm
- b. Whipworm
- c. Roundworm
- d. Hookworm

28. Identify the following equipment. (1 point)



- a. Coaxial Ophthalmoscope Head
- b. PanOptic Ophthalmoscope
- c. Operating Otoscope Head
- d. Pneumatic Otoscope Head

29. Which of the following will cause a non-weight bearing lameness in a horse? (1 point)

- a. Septic joint, fracture, & abscess
- b. Improperly shod & an abscess
- c. Soft tissue injury & tendon rupture
- d. Hoof crack & too short hoof trim

30. How many thoracic vertebrae do small ruminants have? (1 point)

- a. 17
- b. 14
- c. 13
- d. 16

31. Which of the following diseases is a debilitating fungal disease seen mainly in equids? (1 point)

- a. Epizootic Lymphangitis
- b. Streptococcus equi
- c. Q fever
- d. Vesicular Stomatitis

32. Trichuris vulpis is the scientific name for which of the following parasites? (1 point)

- a. Tapeworm
- b. Whipworm
- c. Roundworm
- d. Hookworm

33. What are "polled" goats? (1 point)

- a. Goats that have been de-horned at an early age
- b. Goats that have had their horns removed as adults
- c. A castrated goat
- d. Any goat naturally born without horns

34. What color do the kidneys turn in a copper toxicity in sheep? (1 point)

- a. Apple red
- b. Gun metal blue
- c. Canary yellow
- d. Tootsie roll brown

35. What is the following piece of equipment used for? (1 point)



- a. Gavage feed rabbits & other small mammals
- b. Administer IV fluids at low rates
- c. Measure peripheral capillary oxygen saturation
- d. Monitor anesthetic depth

36. Which of the following is the largest of the forestomachs in a ruminant animal, such as a sheep or goat? (1 point)

- a. Reticulum
- b. Rumen
- c. Omasum
- d. Abomasum

37. The bacterium, *Neorickettsia risticii*, is responsible for which of the following equine diseases? (1 point)

- a. Tetanus
- b. Strangles
- c. Potomac Horse Fever
- d. Rhinopneumonitis

38. Which of the following internal parasites must first pass through an intermediate host of a flea before infecting a dog? (1 point)

- a. Roundworm
- b. Tapeworm
- c. Whipworm

d. Coccidia

39. Which of the following is a silk-like fabric or yarn made from the hair of Angora goats? (1 point)

- a. Mohair
- b. Cashmere
- c. Merino
- d. Cotton

40. How many mammary glands does a lactating goat have? (1 point)

- a. 1
- b. 2
- c. 4
- d. 6

41. Which of the following terms is defined as "abdominal pain"? (1 point)

- a. Colic
- b. Colitis
- c. Impaction
- d. Choke

42. Identify the following canine breed. (1 point)



- a. American Water Spaniel
- b. Brittany
- c. Chesapeake Bay Retriever
- d. Clumber Spaniel

43. Which of the following dog breeds is considered a sporting dog by the AKC? (1 point)

- a. Cocker Spaniel
- b. Border Terrier
- c. Beagle
- d. Boxer

44. Identify the following cat breed. (1 point)



- a. Sphynx
- b. Devon Rex
- c. Turkish Van
- d. Somali Cat

45. Identify the most likely diagnosis for the following horse. (1 point)



- a. Navicular syndrome
- b. Laminitis
- c. Bursitis
- d. Suspensory tendon Desmitis

46. Which of the following is the bacterium which causes equine strangles? (1 point)

- a. Clostridium tetanii
- b. Streptococcus equi equi
- c. Histoplasma capsulatum
- d. Salmonella

47. Where is the urethral process located on a male sheep? (1 point)

- a. Tail
- b. Penis
- c. Pelvis
- d. Spine

48. Which type of colic is most commonly diagnosed in horses living in coastal regions? (1 point)

- a. Gas Colic

- b. Nephrosplenic entrapment
- c. Sand Colic
- d. Colon torsion

49. Which of the following is most likely to lead to infection by the bacterium *Clostridium tetanii*, resulting in tetanus? (1 point)

- a. Wound contamination by soil or manure
- b. Direct contact with infected horses
- c. Contact with nasal secretions and urine
- d. Ingestion of contaminated feed and water

50. Identify the following canine breed. (1 point)



- a. Skye Terrier
- b. Shih Tzu
- c. Affenpinscher
- d. Cairn Terrier

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1. c. Equine viral arteritis
2. d. 21 days
3. b. Cloven hoof
4. a. Horizontal rectangles
5. b. Proglottids
6. b. Strangles
7. d. Harlequin
8. c. Bull Terrier
9. a. Pomeranian
10. d. Equine Encephalitis
11. d. Muscle stiffness and spasms
12. b. Trichuris vulpis
13. d. Bernese Mountain Dog
14. a. Caudal fold of the tail
15. c. Wether
16. c. Philtrum
17. c. Coccidia
18. c. 135-150 days
19. b. Foreleg
20. d. No upper incisors
21. a. Bladder stones
22. a. Laryngeal hemiplegia
23. c. Strangles
24. b. Annually
25. b. Birman
26. a. Dutch rabbit
27. d. Hookworm
28. c. Operating Otoscope Head
29. a. Septic joint, fracture, & abscess
30. c. 13
31. a. Epizootic Lymphangitis
32. b. Whipworm
33. d. Any goat naturally born without horns
34. b. Gun metal blue
35. b. Administer IV fluids at low rates
36. b. Rumen
37. c. Potomac Horse Fever
38. b. Tapeworm
39. a. Mohair
40. b. 2
41. a. Colic
42. a. American Water Spaniel
43. a. Cocker Spaniel
44. b. Devon Rex
45. b. Laminitis
46. b. Streptococcus equi equi
47. b. Penis
48. c. Sand Colic
49. a. Wound contamination by soil or manure
50. a. Skye Terrier