October 9, 2012

Name: ___________________

ANSC 310 EXAM

(116 points)

Multiple choice (1.5 pts)

1. The researcher B. F. Skinner was mostly known for his work with: A) latent learning; B) classical conditioning; C) operant conditioning; D) psychotherapy.

2. Stressing an animal during estrous by making it extremely frightened, for example, may delay or eliminate the peak in: A) ACTH; B) leutenizing (LH) hormone; C) estrogen; D) prolactin; that is responsible for ovulation.

3. The result of a momentary pattern of stimulation of the nervous system and brain: A) thought; B) learning; C) sign stimuli; D) critical period.

4. Part of the nervous system that controls wakefulness and regulates/filters information from the body to the brain: A) reticular formation; B) cerebellum; C) spinal cord; D) hypothalamus.

5. Part of the nervous system that controls hunger, satiety, rage, shivering and blood pressure: A) reticular formation; B) cerebellum; C) spinal cord; D) hypothalamus.

6. During estrus, blood concentrations of the following hormones are elevated: A) estrogen and progesterone, B) leutenizing hormone and progesterone, C) estrogen and leutenizing hormone, D) estrogen and oxytocine.

7. Ways to reduce lamb stealing include all but: A) culling lamb stealers; B) synchronize breeding more so they lamb close to each other; C) lambing in fields; D) restricting ewe mobility.

8. Goats differ from sheep in that they do all the following except: A) select more browse; B) charge before fighting; C) face attackers; D) are a lying out species in regards to their young.

9. In the movie “A wolf in the fold” what did the sheep who lived at the beach eat: A) Trash that washed up; B) Fish & little crabs; C) Low bushes that grew along the shore; D) Seaweed or kelp.

10. Female goats generally reach puberty and are bred in the wild at: A) 4 - 6 months; B) 8 – 10 months; C) 10 – 20 months of age.

11. The term “critical period” in regards to learning refers to: A) the tendency of older sheep to learn and retain migratory routes; B) the tendency of animals to learn things that are critical to their survival; C) animals learning to avoid a food that made them sick within a certain period of time; D) a period in an animal’s development in which it very rapidly learns certain types of information.

12. The duration between estrous periods in sheep is: A) 7 days; B) 14 days; C) 16 - 17 days; D) 21 – 22 days.

13. In the article by B.F. Skinner, Skinner used a conditioned reinforce that was: A) electric shock; B) pinch collar; C) a “bark”; D) a “cricket”.

14. According to legend, if John Rarey had not been successful in training the Cruiser, the “fiend incarnate” horse, the plan was to: A) geld; B) blind; C) make him ware an 8 pound muzzle; D) put him down.

True/False (1 point each)

1. Lobotomies on humans still allowed the patient to be self-asserting and able to take control of situations.
T / F 2. Animal behavior can be attributed to either genetic factors or environmental influences but rarely, if ever, do both influence behavior.

T / F 3. Oxytocin release in the brain is probably responsible for maternal behavior in sheep.

T / F 4. Testosterone stimulates aggression in males while thyroxin stimulates aggression in females.

T / F 5. REM sleep does not occur in prey species such as cattle and horses.

T / F 6. The reproductive hormones LH and FSH are not found in the male.

T / F 7. Some bulls who were castrated when they reached maturity have been observed to show mounting and ejaculation for up to 1.5 years after castration.

T / F 8. According to the Coppingers, interest in guard dogs in the U.S. was stimulated in the 1970’s by the Secretary of Agriculture stating that non-lethal methods of coyote control will be implemented on Federal lands.

T / F 9. Wild or “primitive” sheep scatter and do not flock together when attacked.

T / F 10. Wild or “primitive” sheep shed or molted their wool, modern breeds do not.

T / F 11. Sheep use smell for general localization of their lambs and sight for identification.

T / F 12. After the birth of the lamb the ewe transfers her attraction from the lambing site to the lamb.

T / F 13. Sheep don’t divide into groups containing less than 8-10 animals when they are in pastures where their vision is obstructed.

T / F 14. A good sheep handling facility will have curving chutes and will go down hill.

T / F 15. Rams urinate on themselves during the rut just like bucks.

T / F 16. Location within the Northern versus Southern part of the U.S. does not affect the timing of the breeding season in sheep.

T / F 17. A droving dog is used to move sheep long distances to town or market.

T / F 18. Moderate punishment by the parent has been show to inhibit an offspring’s bonding to that parent.

T / F 19. Modern bee keepers have their hives organized into a top portion which is used for producing “brood” (more bees) and a lower part where honey is formed and stored.

Short Answer (3 pts each)

1. (1.5) On the Lion King placemat, what gait is Simba (the lion) preforming? _______
   Explain:

2. (1.5) On the Lion King pacemat, what gait is the elephant performing? _________
   Explain:
3. List three behaviors from the list in the Notes that are considered to not be conducive to domestication of a species.
   1. 
   2. 
   3. 

4. Briefly, how does an animal acquire a “flavor aversion”?

5. Briefly describe John Rarey’s technique for taming a horse with vicious habits.

6. Explain how you would train an animal to perform a desired behavior by using “negative reinforcement”.

7. Define “negative punishment”:

8. In the movie “A wolf in the fold” what reason did they give for wolves being domesticated and not other wild dogs?

9. Traditionally one ram is used to mate 40-50 ewes. Will putting two rams in with a flock of 100 ewes give you comparable results to one ram with 50 ewes? Explain what will likely happen.

10. In the movie “A wolf in the fold” how did they force a ewe to foster a lamb and why did they use this method. This was when the shepherd used force.

11. According to B. F. Skinner, we are almost always reinforcing or punishing the behavior of others, whether we want to or not. Explain what he meant:
12. In what major way(s) do young (week of age) lambs and kids behave differently in pastures?

   Lambs:

   Kids:

13. What does the lambing jug facilitate and why is that important?

14. In the space at the right, sketch the positions of the handler, stock dog and the sheep when the sheep are being “driven” by the dog. (overhead view)

15. In some studies of pen reared, bottle fed lambs, naval sucking, ear sucking and other vices were reported. What did Kilgour recommend to reduce the occurrence of those vices?

16. List three behavioral signs a ewe exhibits that indicate she is about to give birth:
   1. 
   2. 
   3.

17. You have just been hired by Dr. Friend to develop a compound that will attract only feral hogs. The attractant will be used to deliver an experimental birth control agent. Describe the method that Dr. Friend said is class that is commonly used to test different animal attractants in the field.

18. Define “umwelt”:

19. What is the “vomeronasal organ” and where is it located?
20. A structure in the brain known as the Corpus Callosum has attracted a lot of attention in regards to human behavior, ex. males vs females. What is the function of the Corpus Callosum?

How does it differ in men and women.


22. REM sleep is often referred to as “paradoxical” sleep because:

23. Who (give name) did the initial work on imprinting? and with what species?

24. Describe the difference between classic ethology and psychology.

ethology emphasized:

psychology emphasized:

25. In 1973 the Nobel Prize for medicine went to three ethologists. Name the person who is known for communication in bees: ____________________________

Name the person who is known for behavioral ecology: ____________________________

26. My donkey kicked my dog last night and damaged the dog’s cerebellum. How would you expect the dog to behave that would indicate problems with the dog’s cerebellum?
17. Kilgour spends a lot of time talking about the importance of the “birth site” regarding the bonding process. Explain why the site itself is so important.

29. The article by the Coppingers emphasized that herding dogs, such as border collies, will not work as guard dogs because: