

## 2005 Nature Interpretation Key

1. D	11. E	21. B	31. E	41. C
2. E	12. C	22. A	32. B	42. E
3. A	13. A	23. C	33. C	43. C
4. B	14. B	24. A	34. A	44. D
5. A	15. A	25. E	35. B	45. C
6. C	16. B	26. B	36. E	46. C
7. B	17. C	27. C	37. C	47. B
8. A	18. C	28. B	38. B	48. E
9. B	19. C	29. A	39. D	49. B
10. C	20. E	30. C	40. E	50. D

## 2005 Wildlife Management Key

1. A	11. C	21. B	31. E	41. B
2. C	12. A	22. C	32. A	42. A
3. B	13. E	23. E	33. A	43. C
4. E	14. C	24. C	34. C	44. D
5. D	15. D	25. D	35. C	45. B
6. A	16. B	26. E	36. B	46. C
7. C	17. A	27. C	37. C	47. D
8. A	18. B	28. E	38. A	48. C
9. B	19. C	29. D	39. D	49. E
10. D	20. B	30. C	40. C	50. D

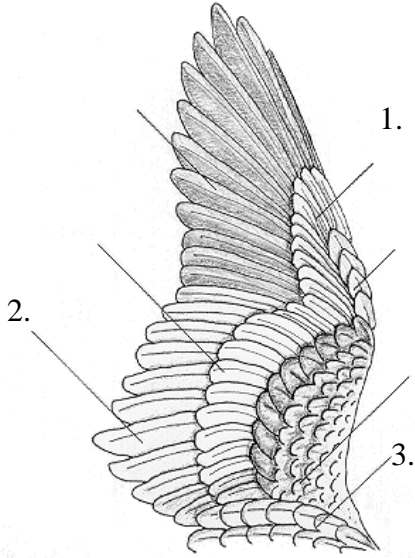
## 2005 PRACTICUM (Same for both contests)

1. A
2. B
3. D
4. B
5. E
6. C
7. E
8. B
9. A
10. D

**Ohio State FFA Wildlife Management Written Test**  
**April 2, 2005**

Matching answers can be used once, twice, or not at all.

**Matching – Identify the parts of this bird wing.**



- a. Primary coverts
- b. Scapulars
- c. Secondaries
- d. Primaries
- e. Alula

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**Matching – Identify the following trees.**



4.



5.



6.

- a. Beech
- b. Walnut
- c. Buckeye
- d. Oak
- e. Hickory

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**Matching – The method of movement can be a clue to identifying tracks. Match the animal with its tracking pattern.**

- 7. White-tailed deer
- 8. Squirrel
- 9. Beaver

- a. Hoppers – placing their back feet ahead of their front as they move
- b. Waddlers – moving their right side and then their left
- c. Straight-liners – placing their back feet in the prints of their front feet.

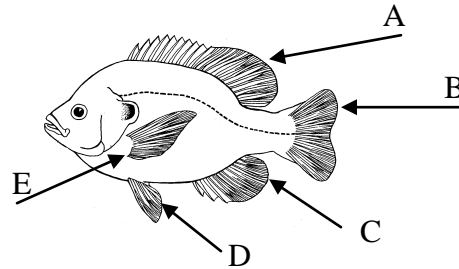
**Matching – Match the duck with the description.**

10. Dark head with large white patch at back of head. Body & chest, touching water, are white.
11. White ‘comma’ reaching up in front of the wing of a primarily dark bird.
12. Light colored back and long sloping profile.

- a. Canvasback
- b. Scaup
- c. Ring-neck duck
- d. Bufflehead
- e. Hooded merganser

**Matching – Match the fin with the diagram.**

13. Pectoral fin
14. Anal fin
15. Ventral fin
16. Caudal fin
17. Dorsal fin



18. Which extirpated mammal was reintroduced to Ohio in the 1980s in the Grand River, Killbuck Creek, Little Muskingum River and Stillwater Creek?
  - a. Beaver
  - b. River Otter
  - c. Muskrat
  - d. Mink
  - e. Bobcat

22. The family *Mephitidae* was recently split from the *Mustelidae* family putting these twelve North American species in a separate grouping from the Mustelids.
  - a. Rabbit
  - b. Beaver
  - c. Skunk
  - d. Deer
  - e. Vole

19. Place the bird life stages in order from youngest to oldest.
  - a. Fledgling, hatchling, juvenile, adult
  - b. Fledgling, juvenile, hatchling, adult
  - c. Hatchling, fledgling, juvenile, adult
  - d. Hatchling, juvenile, fledgling, adult
  - e. Juvenile, hatchling, adult, fledgling

23. What would you use to determine water clarity in a pond or lake?
  - a. Seine
  - b. Sling psychrometer
  - c. Dissolved oxygen meter
  - d. Bottom-sampling dredge
  - e. Secchi disk

20. Which is the largest rodent?
  - a. Woodchuck
  - b. Beaver
  - c. Eastern chipmunk
  - d. Muskrat
  - e. Eastern cottontail

24. Which would not be used in a weather station?
  - a. Anemometer
  - b. Psychrometer
  - c. Dessicator
  - d. Thermometer
  - e. Hygrometer

21. Which trap would be best for collecting mole salamanders in a vernal pool survey?
  - a. Conibear trap
  - b. Minnow trap
  - c. Plankton net
  - d. Snake hook
  - e. Steel trap

25. This squirrel is at its most eastern range in Ohio, found primarily in prairie states.
  - a. Southern flying squirrel
  - b. Red squirrel
  - c. Eastern fox squirrel
  - d. Thirteen-line ground squirrel
  - e. Gray squirrel

26. Which turtle requires a fishing license in order to take from a river or public lake/pond?
- Common snapping turtle
  - Eastern box turtle
  - Midland painted turtle
  - Smooth softshell
  - A and D
27. Tracks are found in the snow showing four toes on the front feet and five toes on the back. Which animal could it be?
- Fox
  - Skunk
  - Squirrel
  - Raccoon
  - Deer
28. What is the recommended placement for gray squirrel nest boxes?
- At least 20' above the ground and facing west.
  - No more than 20' above the ground with the hole facing to the northwest
  - In a tree with at least a 24" diameter.
  - At least 50' high in a tree.
  - At least 30' above the ground and facing east or south.
29. Which is an adaptation of birds that makes them lighter so that they can more easily fly?
- They have hollow bones
  - They lack a urinary bladder
  - Air sacs are found in their bodies and attached to their lungs.
  - All of the above
  - None of the above.
30. How long is a surveyor's chain?
- 50 feet
  - 50 meters
  - 66 feet
  - 100 meters
  - 660 feet
31. Which animal is an insectivore?
- Meadow vole
  - House mouse
  - Star-nosed mole
  - Short-tailed shrew
  - C and D
32. In March through May of this year, 80,000 of what species of fish will be released in 45 inland lakes and ponds?
- Rainbow trout
  - Brown trout
  - Walleye
  - Large mouth bass
  - Yellow perch
33. What is the maximum number of bucks a hunter may take in Ohio in one year?
- 1
  - 2
  - 3
  - 4
  - It depends on the county.
34. A new federal program to create nesting and brood-rearing areas along cropland corridors should help increase the numbers of this bird in Ohio's southern and western counties.
- Wild turkey
  - Ring-necked pheasant
  - Northern bobwhite
  - Chukar
  - American woodcock
35. Aldo Leopold wrote about this bird's unusual 'sky dance' of spiraling into the air during courtship before zigzagging back to earth.
- Wilson's snipe
  - Virginia rail
  - American woodcock
  - Sora rail
  - Gray partridge
36. Which is a hint for catching saugeye?
- They won't bite in dark, muddy water.
  - Use a heavy jig to keep the lure close to the bottom.
  - Minnows should not be used for fishing.
  - Both A and B
  - None of the above
37. Which catfish has a foreked tail?
- Brown bullhead
  - Yellow bullhead
  - Channel
  - Black bullhead
  - None of the above

38. To promote fishing for families, the Ohio Division of Wildlife promotes free fishing days. In 2005, what are the dates?
- May 7-8
  - May 28-29
  - June 4-5
  - It is always Father's Day weekend, June 18-19
  - July 4
39. What species of frogs may be legally taken with a fishing license?
- Bullfrog
  - Greenfrog
  - Leopard frog
  - A and B
  - Any species of frog
40. Undercover "Operation Rip-Rap" just resulted in 16 convictions for what crime?
- Dumping trash in scenic rivers
  - Building private piers and docks along Lake Erie
  - Commercial sale of sport-caught fish
  - Netting sport fish on charter boats
  - Overcharging for charter business
41. When do fishing licenses expire?
- One year from date of issue
  - Last day of February
  - May 31
  - September 30
  - December 31
42. Which of the following is a type of grass?
- Timothy
  - Cattail
  - Amaranth
  - Ragweed
  - Sumac
43. Which is true in comparing the Eastern woodrat with the Norway rat?
- Eastern woodrats have a gray belly; Norway rats have a white belly.
  - Both rats are nuisances that spread disease.
  - Eastern woodrats have a hairy tail; Norway rats have a scaly tail.
  - Neither species are native to Ohio.
  - None of the above
44. Which of these is non-native vine?
- Bittersweet
  - Blackberry
  - Grape
  - Honeysuckle
  - Poison ivy
45. What is the color of poison ivy fruit?
- Red
  - White
  - Blue
  - Purple
  - Yellow
46. Which is a primitive fish with cartilage instead of bones?
- Buffalo fish
  - Creek chub
  - Lamprey
  - Freshwater eel
  - Bowfin
47. Which fish as introduced into Ohio?
- Yellow perch
  - Brown bullhead
  - Muskellunge
  - Brown trout
  - Walleye
48. Which fish is in the Herring family?
- Carp
  - Freshwater drum
  - Gizzard shad
  - Buffalofish
  - Black crappie
49. Which female duck as a white eye ring?
- American widgeon
  - Scaup
  - Goldeneye
  - Blue-winged teal
  - Wood duck
50. Which upland gamebird originates from Asia?
- Woodcock
  - Hungarian partridge
  - Wilson's snipe
  - Ringneck pheasant
  - Ruffed grouse

# Wildlife Management Contest

March 28, 2009

Select the most appropriate answer for each question/statement. In matching sections, answers can be used more than once or not at all.

1. Birds repair and maintain their feathers by
  - A. dustbathing.
  - B. preening.
  - C. winnowing.
  - D. primping.
  - E. drumming.
2. Which bird displays sexual dimorphism?
  - A. Coot
  - B. Canada goose
  - C. American woodcock
  - D. Wood duck
  - E. Blue goose
3. A pH reading of 9.4 means the water is:
  - A. neutral
  - B. acidic
  - C. alkaline
  - D. changing from acidic to alkaline
  - E. changing from alkaline to acidic
4. Which fish has no scales and numerous bony plates on back, belly and sides?
  - A. Shovelhead catfish
  - B. Lake Sturgeon
  - C. Bowfin
  - D. Longnose Gar
  - E. all of the above
5. What is anthropomorphism?
  - A. Process of changing into an adult such as tadpole to frog
  - B. Illness that affects deer and other animals with antlers
  - C. Assigning human traits and feelings to animals
  - D. Carnivores preying on herbivores
  - E. Change in seasons from spring to summer to fall to winter
6. Which part of Ohio was **not** glaciated?
  - A. Lake Erie region
  - B. Western half of the state
  - C. Southeastern third of the state
  - D. Northern half of the state
  - E. Central Ohio
7. Which list of plants includes **only** deciduous plants?
  - A. Elderberry, Cedar, Cattail
  - B. Dogwood, Elderberry, Hickory
  - C. Honeysuckle, Maple, Cedar
  - D. Aspen, Beech, Hickory, Cedar
  - E. Bittersweet, Pine, Hickory, Beech
8. Acre feet is a measure for
  - A. square footage in a field
  - B. conversion from square feet to acres
  - C. linear measurement of depth of a pond
  - D. volume of water in a pond
  - E. none of the above
9. Which is true in comparing the Eastern woodrat with the Norway rat?
  - A. Neither are particular about what they eat
  - B. Eastern woodrats have a hairy tail; Norway rats have a scaly tail
  - C. Eastern woodrats have a gray belly; Norway rats have a white belly
  - D. Both rats are nuisances spreading disease
  - E. Both B and C are true
10. Which list of species are desirable plants for attracting wildlife?
  - A. Multiflora rose, maple, fescue
  - B. Hawthorn, sunflower, blackberry
  - C. Purple loosestrife, sunflower, blackberry
  - D. Switch grass, red clover, fescue
  - E. Grape, fescue, purple loosestrife
11. Which animal is diurnal?
  - A. 13 lined ground squirrel
  - B. Striped skunk
  - C. Meadow vole
  - D. Gray squirrel
  - E. a and d
12. What regulates antler growth in deer?
  - A. hormones
  - B. nutrition
  - C. climate
  - D. only a and b
  - E. only a and c

13. Which statement is true about sexing Wild turkey?
- The female's spur is smaller or non-existent.
  - The male's droppings 'clump' together more than the female's.
  - The female does not have a spur and there is no difference in droppings.
  - The female's droppings 'clump' together more than the male's.
  - The male's droppings do not 'clump' and the spurs are the same size.
14. What is the maximum amount of animals an ecosystem can sustain over a period of time?
- biomass
  - limiting factor
  - carrying capacity
  - maximum potential
  - ecological maximum
15. What is a cache?
- burrow for hibernating
  - bird's gullet where food is ground up
  - technique for scaring off predators
  - stored food
  - protected nest of fish eggs
16. Gestation refers to the length of time an animal
- hibernates.
  - is in heat.
  - takes to mature.
  - is pregnant.
  - mates.
17. What is the most frequent reason for declines in animal populations?
- loss of habitat
  - increased predators
  - hunting
  - lack of food
  - both b and c
18. Which has opposite leaf arrangement?
- Dogwood
  - Maple
  - Aspen
  - all of the above
  - only a and b
19. Which fish is present in waters in every county in Ohio?
- white sucker
  - pumpkinseed
  - small mouth bass
  - yellow perch
  - both a and c
20. Which bears live young?
- Creek chub
  - Bowfin
  - Lamprey
  - Buffalofish
  - none of the above
21. Which statement is correct in comparing Red fox and Gray fox?
- Gray fox are slightly smaller and have larger litters.
  - Gray fox climb trees while Red fox do not.
  - Red fox are monogamous while Gray fox are not.
  - Red fox are more omnivorous than Gray fox.
  - none of the above.
22. Which usually produces two litters per year.
- Raccoon
  - Gray squirrel
  - Muskrat
  - Meadow vole
  - both b and c
23. Which animal is the smallest at birth?
- Red vole
  - Little brown myotis
  - Opossum
  - Jumping mouse
  - Pine vole
24. Which bird was introduced from Asia?
- Wilson's snipe
  - Ringneck pheasant
  - Ruffed grouse
  - Tundra swan
  - Hungarian partridge
25. Which term refers to animals that are defenseless and unable to leave the nest right after birth/hatching?
- Precocial
  - Predacious
  - Altricial
  - Omnivorous
  - Gallinaceous

26. Which sunfish has a bright red spot on the tip of the gill?  
 A. Pumpkinseed  
 B. Bluegill  
 C. Orange spotted sunfish  
 D. Green sunfish  
 E. all of the above
27. Which bird has wavy edges on its toes?  
 A. Pied-billed grebe  
 B. Ruffed grouse  
 C. American coot  
 D. Common loon  
 E. Canada goose
28. How many square feet are in an acre?  
 A. 4,356  
 B. 43,560  
 C. 435,600  
 D. 4,356,000  
 E. 43,560,000
29. Which plant is considered a serious invasive plant wildlife?  
 A. Poison ivy  
 B. Asian bittersweet  
 C. Ragweed  
 D. Sunflower  
 E. Switch grass
30. Which animal eat bark off of trees?  
 A. Beavers  
 B. Cottontail rabbits  
 C. Meadow voles  
 D. only a and b  
 E. a, b and c
31. Which animal has canine teeth?  
 A. Deer  
 B. Eastern chipmunk  
 C. Raccoon  
 D. Gray squirrel  
 E. none of the above

## Matching

**Match the description with the correct species of grass.**

- |                   |   |
|-------------------|---|
| 32. Timothy grass | A. Large spreading paniced flower head; warm season perennial; small "nest" of hair where blade attaches to sheath. |
| 33. Sudan grass   | B. Cool season perennial; undesirable.  |
| 34. Orchard grass | C. Non-native; cool season perennial; blade rough and sandpaper-like.   |
| 35. Switch grass  | D. Cool season perennial; bulbous base; bristly, cylindrical seed heads that are spike-like.                        |
|                   | E. Warm season annual; non-native; fine erect stems with narrow leaves.   |

**Match the animal with its correct grouping.**

- |                         |                      |
|-------------------------|----------------------|
| 36. Gray fox            | A. Marsupial         |
| 37. Eastern pipistrelle | B. Insectivore       |
| 38. Flying squirrel     | C. Carnivore         |
| 39. Muskrat             | D. Rodent            |
| 40. Opossum             | E. None of the above |

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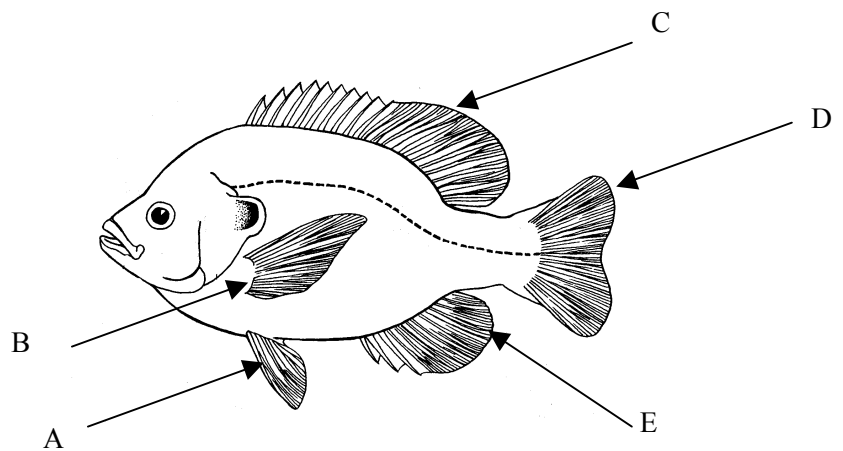
**Match the duck with its description.**

- |                      |  |
|----------------------|--|
| 41. Redhead          | A. male has white breast, side & abdomen               |
| 42. Bufflehead       | B. female has distinct white face                      |
| 43. Canvasback       | D. large round head, dark breast, gray back in male    |
| 44. Ring-necked duck | C. profile is distinctly long & sloping                |
| 45. Scaup            | E. male has black back & vertical white stripe on side |

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**Match the fin to its appropriate name.**

- 46. Pectoral fin
- 47. Anal fin
- 48. Dorsal fin
- 49. Ventral fin
- 50. Caudal fin



## Wildlife Management Interpretation State FFA Contest – March 31, 2007

Select the most appropriate answer for each question/statement. In matching sections, answers can be used more than once or not at all.

### Matching – Match the animals with the description of the sound they make.

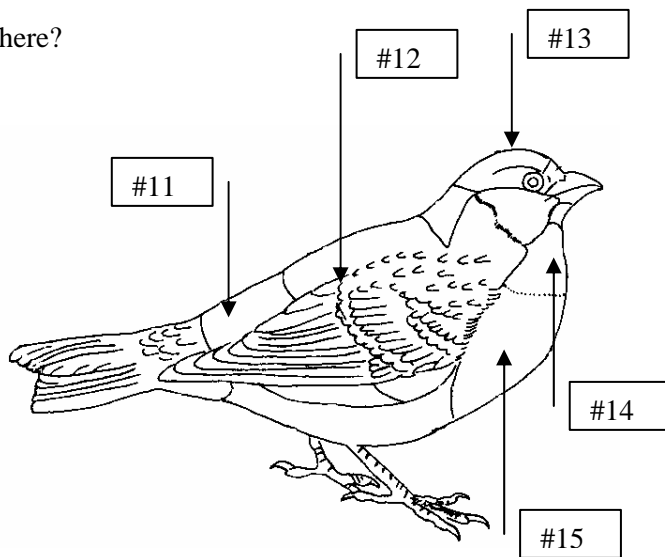
- |                      |  |
|----------------------|--|
| 1. Common loon       | A. Whistling sound   |
| 2. American woodcock | B. Named for the song it makes.                                |
| 3. Wood Duck         | C. Wings create a twittering sound as it descends from the air |
| 4. Northern bobwhite | D. Quivering call similar to a frog or owl                     |
| 5. Ruffed grouse     | E. Makes a drumming sound with its wings                       |
| 6. Tundra swan       |  |

### Matching – Sexing and Aging

- |  |                                  |
|--|----------------------------------|
| 7. A Bobwhite has lighter feathers that are creamy instead of white. | A. Immature                      |
| 8. Band on tail of Ruffed Grouse is continuous, not broken up.       | B. Mature                        |
| 9. Wild turkey's spur is quite small.                                | C. Male                          |
| 10. Black duck has a blue speculum with white edge.                  | D. Female                        |
| .  | E. Does not determine age or sex |

### Bird Topography -- What is the correct name of each part labeled here?

- |  |  |
|--|--|
| 11. What is this called?<br>A. Rump<br>B. Tail<br>C. Back                | 13. What is this called?<br>A. Crown<br>B. Nape<br>C. Top knot |
| 12. What is this called?<br>A. Primary feather<br>B. Wingbar<br>C. Flank | 14. What is this called?<br>A. Chin<br>B. Nape<br>C. Lore      |
|  | 15. What is this called?<br>A. Breast<br>B. Flank<br>C. Belly  |



16. You find twigs eaten off of some apple tree seedlings about a foot off the ground. One side is cut neatly and the other is roughly torn. Which animal is most likely the one who did this?
- Eastern cottontail
  - Meadow vole
  - White-tailed deer
  - Striped skunk
  - Eastern chipmunk
17. Which of these animals hibernates?
- Short-tailed shrew
  - Woodchuck
  - Eastern cottontail
  - Raccoon
  - Eastern gray squirrel
18. Which list includes only rodents?
- Rabbit, Deer, Vole
  - Vole, Mouse, Squirrel
  - Squirrel, Deer, Vole
  - Mole, Mouse, Squirrel
  - Rabbit, Squirrel, Mouse
19. Which animal is diurnal?
- Skunk
  - Barn owl
  - Raccoon
  - Flying squirrel
  - Thirteen-lined ground squirrel
20. What activity helps birds repair and maintain their feathers?
- Preening
  - Primping
  - Dustbathing
  - Drumming
  - Drumming
21. What does sexual dimorphism mean?
- Animal of one sex displays the sexual organs of the other sex.
  - Animal has both male and female parts.
  - Male and female cannot be told apart without studying internal parts.
  - The sex of the animal cannot be determined until the second year.
  - Males display different colors than females.
22. With a pair of 7x35 binoculars:
- The subject appears 35 times larger than without magnification.
  - The subject is enlarged five times from 7' to 35'.
  - The front lens opening is 35 mm.
  - The subject appears seven times larger than without magnification.
  - C and D
23. Which is an example of anthropomorphism?
- Bambi crying when his father was killed
  - White-tailed deer removing velvet from their antlers
  - A nest of Eastern cottontail being killed by predators
  - Green-winged teal migrating south
  - Red fox marking its territory
24. What does precocial mean?
- Males return from winter range prior to the females
  - Young are ready to leave nest within a day or so of hatching
  - Females raise the young without the male
  - Plant flowers before leaves come out
  - None of the above
25. What is the maximum amount of animals an ecosystem can sustain over a period of time?
- Limiting factor
  - Maximum potential
  - Carrying capacity
  - Biomass
  - Ecosystem maximum
26. What signals a bird to begin migration?
- Length of sunlight
  - Temperature
  - Lack of food
  - All of the above
  - Only A and B
27. Which term refers to an animal that is active at dusk and dawn?
- Altricial
  - Nocturnal
  - Diurnal
  - Biurnal
  - Crepuscular

28. Which animal paralyzes its prey with its bite?
- Striped skunk
  - Starnose mole
  - Woodland jumping mouse
  - Shorttail shrew
  - Hoary bat
29. How much of Ohio is glaciated?
- 10%
  - 33%
  - 50%
  - 66%
  - 100%
30. Which list of plants includes only deciduous plants?
- Cedar, Hemlock, Autumn olive, Aspen
  - Aspen, Beech, Hickory, Cedar
  - Hickory, Beech, Bittersweet, Aspen
  - Hickory, Bittersweet, Pine, Beech
  - Pine, Hemlock, Cedar
31. Acre feet is a measure for
- square footage in a field
  - conversion from square feet to acres
  - area of water in a pond
  - linear measurement of depth of a pond
  - volume of water in a pond
32. Which has alternate leaf arrangement?
- Japanese honeysuckle
  - Dogwood
  - Maple
  - Elderberry
  - Crabapple
33. Which bird was introduced from Asia?
- Sora rail
  - Ringneck pheasant
  - Ruffed grouse
  - American woodcock
  - Hungarian partridge
34. Which statement(s) are accurate in comparing a Bluntnose minnow with a Fathead minnow?
- Fathead are less selective in choice of habitat.
  - Bluntnose have a subterminal mouth.
  - Bluntnose have white lateral band.
  - All of the above are true.
  - Only A and C are true.
35. Which catfish has a forked tail?
- Yellow bullhead
  - Black bullhead
  - Channel
  - Brown bullhead
  - Madtom
36. Which fish is in the salmon family?
- Pickrel
  - Channel catfish
  - Longnose gar
  - Bowfin
  - Lake trout
37. The number 330 Conibear is designed for trapping which animal?
- Raccoon
  - Mink
  - Muskrat
  - Beaver
  - Red fox
38. Which animal is very common, but rarely seen because of its nocturnal habits?
- Southern flying squirrel
  - Eastern woodrat
  - Hoary bat
  - Badger
  - Shorttail shrew
39. Which is a list of diving ducks?
- Ruddy, Wood, Scaup
  - Coot, Ruddy, Ring-necked
  - Canvasback, Bufflehead, Ring-necked
  - Redhead, Widgeon, Merganser
  - Wood, Coot, Black
40. Which tool is used to measure wind speed?
- Aerial net
  - Secchi disk
  - Psychrometer
  - Hand lens
  - Anemometer
41. Which source of funds provides the most money for wildlife management in Ohio?
- Fines from violations in wildlife laws
  - Hunting licenses
  - State income tax check off money
  - Campsite and boat dock rentals
  - Trapping licenses

42. Split shot, rubber core, wire twist, and bank are all types of which item?
- Bobbers
  - Sinkers
  - Fish hooks
  - Steel shot
  - Hunting arrows
43. In surveying, how long is a chain?
- 66 feet
  - 100 yards
  - 66 yards
  - 100 yards
  - 100 meters
44. Which animal relocated on its own to Ohio after we began creating open areas of corn/soybean fields of Ohio?
- Badger
  - White-tailed deer
  - Coyote
  - Woodrat
  - Gray fox
45. Which list of species are all polygamous?
- Ring-neck pheasant, Canada goose, Mourning dove, Mallard
  - Ring-necked pheasant, Wood duck, Mourning dove, Turkey
  - Woodcock, Ring-neck pheasant, Ruffed grouse, Turkey
  - Turkey, Woodcock, Swan, Ruffed grouse
  - None of the above
46. What are deer with mottled, brown and white coats from a genetic variation called?
- Roan
  - Melanistic
  - Extinct
  - Pinto
  - Pied-bald
47. Which list of animals are benefiting from man-made structures built to attract them?
- Flying squirrels, Raccoons, Little brown myotis
  - Little brown myotis, Badger, Thirteen-lined ground squirrel
  - Wood duck, Little brown myotis, Flying squirrels
  - Norway rats, Least weasel, Eastern cottontail
  - Gray squirrel, Eastern woodrat, Wood duck
48. Which duck is identified by a “comma” on its side?
- Lesser scaup
  - Canvasback
  - Redhead
  - Ring-neck duck
  - Ruddy duck
49. Which is a gallinaceous bird?
- Wood duck
  - Woodcock
  - Wild turkey
  - Canvasback
  - Canada goose
50. Which is a shorebird?
- Wild turkey
  - Woodcock
  - Pied-billed grebe
  - American coot
  - Mute swan

Wildlife Mgt Exam Key

**Wildlife Management Test**

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1. D  | 11. A | 21. E | 31. E | 41. B |
| 2. C  | 12. B | 22. E | 32. E | 42. B |
| 3. A  | 13. A | 23. A | 33. B | 43. A |
| 4. B  | 14. A | 24. B | 34. B | 44. C |
| 5. E  | 15. A | 25. C | 35. C | 45. B |
| 6. A  | 16. C | 26. A | 36. E | 46. E |
| 7. D  | 17. B | 27. E | 37. D | 47. C |
| 8. C  | 18. B | 28. D | 38. A | 48. D |
| 9. A  | 19. E | 29. D | 39. C | 49. C |
| 10. E | 20. A | 30. C | 40. E | 50. B |

## Nature Interpretation State FFA Contest – March 31, 2007

Select the most appropriate answer for each question/statement. In matching sections, answers can be used more than once or not at all.

### Matching – Match the amphibians with the description of their call.

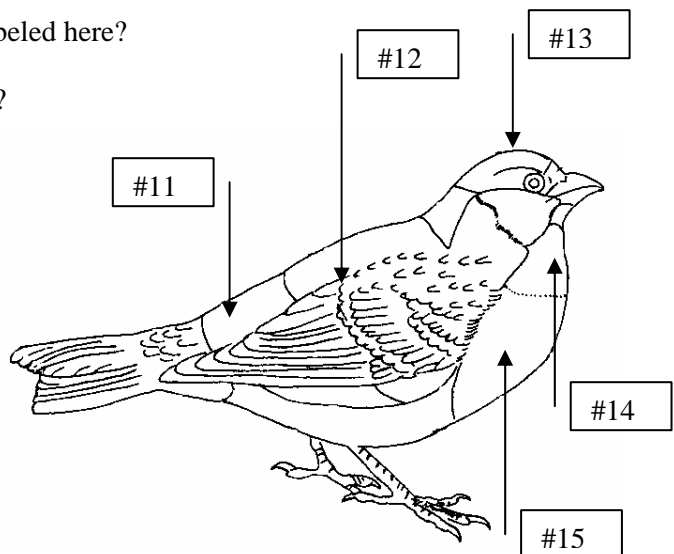
- |                          |   |
|--------------------------|---|
| 1. Green frog            | A. Explosive, two-syllable sound string heard late April through June |
| 2. Northern leopard frog | B. Long musical trill heard from mid-March to early June.             |
| 3. American toad         | C. Deep, three syllable song heard starting in mid-May                |
| 4. Spring peeper         | D. Long, low guttural note followed by several short notes            |
| 5. Bullfrog              | E. Short, shrill sound heard in March.                                |

### Matching – Sexing and Aging

- |   |                                  |
|---|----------------------------------|
| 6. Red stripe found below the bill on the Pileated Woodpecker.    | A. Immature                      |
| 7. Screech owl feathers are gray instead of red.                  | B. Mature                        |
| 8. Carapace of Eastern box turtle is flat, not concave.           | C. Male                          |
| 9. There is no red on the back of the head of a Downy Woodpecker. | D. Female                        |
| 10. When picked up, the American toad makes noises of protest.    | E. Does not determine age or sex |

### Bird Topography -- What is the correct name of each part labeled here?

- |  |  |
|--|--|
| 11. What is this called?<br>A. Rump<br>B. Tail<br>C. Back                | 13. What is this called?<br>A. Crown<br>B. Nape<br>C. Top knot |
| 12. What is this called?<br>A. Primary feather<br>B. Wingbar<br>C. Flank | 14. What is this called?<br>A. Chin<br>B. Nape<br>C. Lore      |
|  | 15. What is this called?<br>A. Breast<br>B. Flank<br>C. Belly  |



16. Arriving the middle of March in Ohio, the male is very territorial. Other males trying to take over his territory will display yellow or no color on their wings.
- Eastern Bluebird
  - Red-winged Blackbird
  - Sharp-shinned Hawk
  - Cedar Waxwing
  - Barn Swallow
17. Which composes Ohio's bedrock?
- Metamorphic
  - Igneous
  - Sedimentary
  - Glacial till
  - All of the above
18. Which of these guidelines provides more effective interpretive signs?
- Eliminating headings or titles
  - Including simple illustrations
  - Capitalizing all text
  - Using a font of 8 point or smaller
  - B and D
19. How many petals does Purple cress have?
- 3
  - 4
  - 5
  - 6
  - more than 6
20. What is another name for Trout lily?
- Adder's tongue
  - Daylily
  - Dogtooth violet
  - both a and c
  - none of the above
21. Which lists these salamanders in order of smallest to largest?
- Small-mouthed, Mud puppy, Hellbender, Spotted
  - Hellbender, Mud puppy, Small-mouthed, Spotted
  - Spotted, Mud puppy, Eastern Newt, Hellbender
  - Red-backed, Spotted, Mud puppy, Hellbender
  - Mud puppy, Spotted, Red-backed, Hellbender
22. Which is an accipiter?
- Red-tailed hawk
  - Osprey
  - Sharp-shinned hawk
  - American kestrel
  - Bald eagle
23. Which can be commonly found at winter birdfeeders in Ohio?
- Cardinal, Chickadee, Cowbird, Robin
  - Downy Woodpecker, Tufted Titmouse, Junco
  - Junco, Yellowthroat, Flicker
  - Starling, Song Sparrow, Kingbird
  - Cowbird, Red-winged blackbird, House sparrow
24. The Dark-eyed junco is in which family?
- Tanager
  - Chickadee
  - Warbler
  - Blackbird
  - Sparrow
25. Which owl can be found in Ohio in the summer?
- Long-eared
  - Screech
  - Short-eared
  - Barn
  - B & D
26. You find twigs eaten off of some apple tree seedlings about a foot off the ground. One side is cut neatly and the other is roughly torn. Which animal is most likely the one who did this?
- Eastern cottontail
  - Meadow vole
  - White-tailed deer
  - Striped skunk
  - Eastern chipmunk
27. Which of these animals hibernates?
- Short-tailed shrew
  - Woodchuck
  - Eastern cottontail
  - Raccoon
  - Eastern gray squirrel

28. Living history interpretation can include demonstrations on
- religious beliefs
  - contemporary lifestyles
  - historical lifestyles
  - all of the above
  - only a and c
29. Which is the smallest venomous snake found in Ohio?
- Eastern massasaugua
  - Ring-necked snake
  - Copperhead
  - Timber rattlesnake
  - None of the above
30. What is the tympanum?
- Poisonous sac in a rattlesnake
  - Fruiting body of jack-in-the-pulpit
  - Covering on a flower before it opens
  - Ear membrane of a frog
  - Membrane inside of a bird's egg
31. Which list includes only rodents?
- Rabbit, Deer, Vole
  - Vole, Mouse, Squirrel
  - Squirrel, Deer, Vole
  - Mole, Mouse, Squirrel
  - Rabbit, Squirrel, Mouse
32. Which animal is diurnal?
- Skunk
  - Barn owl
  - Raccoon
  - Flying squirrel
  - Thirteen-lined ground squirrel
33. Which is a true statement about owls?
- One ear is higher than the other on the side of their heads.
  - Their eyes move easily within their head.
  - The facial disk helps the owl pick up sounds.
  - A and C are true
  - None of these are true
34. What activity helps birds repair and maintain their feathers?
- Preening
  - Primping
  - Dustbathing
  - Drumming
  - Drumming
35. What does sexual dimorphism mean?
- Animal of one sex displays the sexual organs of the other sex.
  - Animal has both male and female parts.
  - Male and female cannot be told apart without studying internal parts.
  - The sex of the animal cannot be determined until the second year.
  - Males display different colors than females.
36. In March, these birds can be seen soaring in pairs and sitting high in trees. They are preparing to nest in large, stick nests that are sometimes also utilized by Great horned owls.
- Screech owl
  - Bald eagle
  - Red-tailed hawk
  - Sharp-shinned hawk
  - Turkey vulture
37. With a pair of 7x35 binoculars:
- The subject appears 35 times larger than without magnification.
  - The subject is enlarged five times from 7' to 35'.
  - The front lens opening is 35 mm.
  - The subject appears seven times larger than without magnification.
  - C and D
38. Which is an example of anthropomorphism?
- Bambi crying when his father was killed
  - White-tailed deer removing velvet from their antlers
  - A nest of Eastern cottontail being killed by predators
  - Green-winged teal migrating south
  - Red fox marking its territory
39. How much of Ohio is glaciated?
- 10%
  - 33%
  - 50%
  - 66%
  - 100%

40. Which plant is a favorite food source for Monarch larvae?
- Common Mullein
  - Blue Phlox
  - Common Milkweed
  - Goldenrod
  - Wild Carrot
41. Which plant causes serious allergic reaction in many people in late summer/early fall?
- Common Ragweed
  - Golden Ragwort
  - Goldenrod
  - A & C
  - A, B & C
42. What does precocial mean?
- Males return from winter range prior to the females
  - Young are ready to leave nest within a day or so of hatching
  - Females raise the young without the male
  - Plant flowers before leaves come out
  - None of the above
43. What is the maximum amount of animals an ecosystem can sustain over a period of time?
- Limiting factor
  - Maximum potential
  - Carrying capacity
  - Biomass
  - Ecosystem maximum
44. What signals a bird to begin migration?
- Length of sunlight
  - Temperature
  - Lack of food
  - All of the above
  - Only A and B
45. Which term refers to an animal that is active at dusk and dawn?
- Altricial
  - Nocturnal
  - Diurnal
  - Biurnal
  - Crepuscular
46. The following are in the Mint family.
- Wild ginger, Hawkweed, Heal-all
  - Ground-ivy, Wild bergamot, Heal-all
  - Ground-ivy, Tall meadow-rue, Chicory
  - Heal-all, Tall meadow-rue, Wild geranium
  - Wild geranium, Wild ginger, Hawkweed
47. Which animal paralyzes its prey with its bite?
- Striped skunk
  - Star-nosed mole
  - Woodland jumping mouse
  - Shorttail shrew
  - Hoary bat
48. The following normally bloom in the spring.
- Purple cress, Purple loosestrife, Common milkweed
  - Large-flowered bellwort, False Solomon's seal, Trout lily, Wild carrot
  - Mayapple, Yarrow, Round-lobed hepatica, Purple cress
  - Large-flowered bellwort, Mayapple, Squirrel corn, Bloodroot
  - Large flowered trillium, Blazing star, Butterfly weed, Trout lily
49. Which plant is also known as Cranesbill because its seed looks like a bill?
- Purple cress
  - Wild geranium
  - Ground-ivy
  - Great lobelia
  - Round-lobed hepatica
50. The following have primarily yellow flowers.
- Golden ragwort, Large-flowered bellwort, Trout lily, Marsh marigold
  - Butter and eggs, Heal all, Wild onion, Daylily
  - Large-flowered bellwort, Large-flowered trillium, Prairie dock
  - Marsh marigold, Golden ragwort, Wild onion, Heal all
  - Butter and eggs, Wood lily, Ground ivy, Yellow lady's

## 2007 Key to FFA Tests

### Nature Interpretation Written Test

1. A	11. A	21. D	31. B	41. A
2. D	12. B	22. C	32. E	42. B
3. B	13. A	23. B	33. D	43. C
4. E	14. A	24. E	34. A	44. A
5. C	15. A	25. E	35. E	45. E
6. B	16. B	26. C	36. C	46. B
7. E	17. C	27. B	37. E	47. D
8. D	18. B	28. D	38. A	48. D
9. D	19. B	29. A	39. D	49. B
10. C	20. D	30. D	40. C	50. A

## 2009 FFA Contest Keys

### Wildlife Key

1. B
2. D
3. C
4. B
5. C
6. C
7. B
8. D
9. B
10. B
11. E
12. D
13. D
14. C
15. D
16. D
17. A
18. E
19. E
20. E
21. B
22. C
23. C
24. B
25. C
26. A
27. C
28. B
29. B
30. E
31. C
32. D
33. E
34. C
35. A
36. C
37. B
38. D
39. D
40. A
41. D
42. A
43. C
44. E

- 45. B
- 46. B
- 47. E
- 48. C
- 49. A
- 50. D

Nature Interpretation Key

- 1. B
- 2. E
- 3. C
- 4. C
- 5. D
- 6. B
- 7. C
- 8. D
- 9. B
- 10. A
- 11. C
- 12. D
- 13. Maypole (given credit due to listing 2x)
- 14. B
- 15. C
- 16. B
- 17. C
- 18. B
- 19. A
- 20. D
- 21. B
- 22. D
- 23. D
- 24. E
- 25. B
- 26. A
- 27. C
- 28. D
- 29. C
- 30. D
- 31. E
- 32. C
- 33. A
- 34. C
- 35. A
- 36. B
- 37. D
- 38. C
- 39. C

- 40. D
- 41. do not use unless change entire C & D, students told to use letter not position
- 42. E
- 43. do not use unless change entire C & D, students told to use letter not position
- 44. A
- 45. C
- 46. B
- 47. D
- 48. B
- 49. A
- 50. C

# Nature Interpretation Contest

March 28, 2009

Select the most appropriate answer for each question or statement.

- Which of these binoculars has the most powerful magnification?
  - 5 x 35
  - 10 x 35
  - 7 x 35
  - 8 x 35
  - 7 x 50
- What does the term extirpated mean?
  - Species has adapted to a new habitat.
  - Species migrates each fall and spring.
  - Species became extinct due to man's influence.
  - Species has a large home range.
  - Species is no longer found in an area.
- Which composes Ohio's bedrock?
  - Metamorphic
  - Igneous
  - Sedimentary
  - Glacial till
  - Glacial erratic
- Interpretive signs are more effective when they:
  - use capital letters throughout the text.
  - avoid titles or headings.
  - include simple illustrations.
  - all of the above
  - b and c only
- Which flower is an example of a spathe and spadix?
  - Ironweed
  - Purple loosestrife
  - Common mullein
  - Jack-in-the-Pulpit
  - Wild columbine
- Which normally bloom in the spring?
  - Blue phlox, Purple loosestrife, Columbine, Wild geranium
  - Wild geranium, Columbine, Golden ragweed, Blue phlox
  - Columbine, Yarrow, Teasel, Trout lily
  - Wild geranium, Bloodroot, Teasel, Blue phlox
  - Purple loosestrife, Wild geranium, Yarrow, Teasel
- The corolla refers to the
  - sepals.
  - anther and filament.
  - petals.
  - pistil and stamen.
  - entire flower.
- Which have regular flowers?
  - Lobelia, Butter and eggs, Daylily, Ground ivy
  - Cardinal flower, Butter and eggs, Jack-in-the-pulpit, Lady slipper
  - Teasel, Canadian violet, Blue phlox, Bloodroot
  - Wild lupine, Large-flowered trillium, Chicory
  - Squirrel corn, Lobelia, Wild ginger
- Which is an example of an umbel?
  - Jack-in-the-pulpit
  - Queen Anne's Lace
  - Purple loosestrife
  - Wild geranium
  - Cardinal flower
- Which is listed as an important invasive species?
  - Purple loosestrife
  - Common mullein
  - Broad-leaved arrowhead
  - Wild carrot
  - Heal-all
- What animal helps in pollinating Wild ginger?
  - Mice
  - Snakes
  - Snails
  - Moths
  - Earthworms
- Which has a flower most similar to Dutchman's breeches?
  - Indian cucumber-root
  - Trout lily
  - Yellow lady's slipper
  - Squirrel corn
  - Yarrow

13. Which plant has greenish white flowers that are usually in pairs and found at the leaf axil on the under side of the plant?
- Broad leaved arrowhead
  - Mayapple
  - Solomon's seal
  - False Solomon's seal
  - Mayapple
14. Wild geranium has a nickname based on the
- petals looking like the Azure butterfly.
  - seed looking like a Crane's bill.
  - leaves looking like Maple leaves.
  - fact it was used as a diuretic.
  - roots smelling like rotting wood.
15. Ferns distributed what to create new plants?
- Seeds
  - Fronds
  - Spore
  - Flower heads
  - Fruit
16. How many petals does the Large-flowered trillium have?
- 2
  - 3
  - 4
  - 5
  - 6
17. Which is a member of the mustard family?
- Yellow goatsbeard
  - Wild geranium
  - Garlic mustard
  - Tall meadow-rue
  - Purple loosestrife
18. Which of the following are composites?
- Trout lily, Hawkweed, Blazing star, Yarrow
  - Prairie dock, Yarrow, Goldenrod, Hawkweed
  - Large-flowered bellwort, Daylilies, Yarrow, Prairie dock
  - Canada lily, Wild onion, Goldenrod, Hawkweed
  - Blazing star, Hawkweed, Daylilies
19. What color are the flowers of Common mullein?
- Yellow
  - Lavender
  - Pink
  - White
  - Red
20. What is another name for Trout lily?
- Adder's tongue
  - Daylily
  - Dogtooth violet
  - both a and c
  - none of the above
21. Which are members of the lily family?
- Trout lily, Marsh marigold, Solomon's seal, Ground ivy
  - Wood lily, Wild onion, Solomon's seal, Large-flowered bellwort
  - Large-flowered trillium, Canada lily, Evening primrose
  - Wood lily, Wood betony, Yellow lady's slipper, Wild onion
  - Wild onion, Goldenrod, Great lobelia, False Solomon's seal
22. Which lists these salamanders in order of smallest to largest?
- Red-backed salamander, Mud puppy, Hellbender, Spotted salamander
  - Hellbender, Mud puppy, Red-backed, Spotted
  - Spotted, Mud puppy, Red-backed, Hellbender
  - Red-backed, Spotted, Mud puppy, Hellbender
  - Mud puppy, Spotted, Red-backed, Hellbender
23. Which is a lungless salamander?
- Spotted salamander
  - Small-mouthed salamander
  - Hellbender
  - Red-backed salamander
  - Mud puppy
24. Which does not have costal grooves?
- Red salamander
  - Spotted-salamander
  - Hellbender
  - Mud puppy
  - Eastern newt
25. Which amphibian has a two-syllable call heard in May and June?
- American toad
  - Green frog
  - Bullfrog
  - Northern leopard frog
  - Peeper treefrog

26. Which snake has a flattened stomach that meets at the sides at an angle and in cross-section looks like a loaf of bread?
- Black snake
  - Blue racer
  - Common garter snake
  - Eastern hognose snake
  - Copperhead
27. What is the hinged portion of a box turtle called?
- Carapace
  - Platelet
  - Plastron
  - Undershell
  - Head covering
28. Which statement is usually true in determining the sex of a box turtle?
- The male has brown eyes and the female has red eyes.
  - The male has brown eyes and the female has green eyes.
  - The male has brighter colored red eyes than the female.
  - The male has red eyes and the female has brown eyes.
  - Eye coloration cannot be used to determine sex.
29. Which statement is true concerning the size of Spiny softshell turtles?
- Male and female are usually the same size.
  - Male are 5 - 8 inches and female are slightly smaller at 4 - 6 inches.
  - Male are 5 - 8 inches and female are up to 17 inches.
  - Male are 5 - 8 inches and female are slightly larger at 8 - 10 inches.
  - Male can reach the size of 17 inches and females are 5 - 8 inches.
30. Which is an accipiter?
- American Kestrel
  - Turkey Vulture
  - Osprey
  - Cooper's hawk
  - Bald eagle
31. Which bird has a flute-like song and is commonly found in fields and fencerows?
- Cedar waxing
  - Common flicker
  - Tufted titmouse
  - Blue jay
  - Meadowlark
32. Which bird travels head first down a tree?
- Tufted titmouse
  - Cardinal
  - White-breasted nuthatch
  - Downy woodpecker
  - Chickadee
33. Which can be is commonly found at winter birdfeeders in Ohio?
- Cooper's hawk, Goldfinch, Song sparrow, Dark-eyed junco
  - American kestrel, Chickadee, Song sparrow, Crested flycatcher
  - Cooper's hawk, Gray catbird, House sparrow, Song sparrow, Starling
  - Song sparrow, House sparrow, Eastern kingbird, Blue jay
  - Tufted titmouse, Eastern meadowlark, Blue jay, Hooded warbler
34. The Dark-eyed junco is in which family?
- Tanager
  - Chickadee
  - Sparrow
  - Warbler
  - Blackbird
35. What color is a Tree swallow?
- All white below, dark above
  - Rusty below, dark above
  - White breast, rusty below, dark above
  - Rusty below, dark above except for orange rump
  - Dark above and below except for orange rump
36. Which has a streaked breast?
- Dark-eyed junco
  - Song sparrow
  - Snow bunting
  - House sparrow
  - White-throated sparrow

37. Which listing of owls below places them in order from largest to smallest?
- Short-eared, Barred, Long-eared, Screech
  - Great-horned, Long-eared, Barred, Screech
  - Short-eared, Great-horned, Barred, Screech
  - Great-horned, Barred, Short-eared, Screech
  - Barred, Long-eared, Screech, Short-eared
38. How many incisors does an Eastern cottontail have?
- 2 above, 2 below
  - 2 above, none below
  - 4 above, 2 below
  - 4 above, none below
  - 4 above, 4 below
39. What are voles?
- Carnivores
  - Insectivores
  - Herbivores
  - Ominvores
  - Vegetarians
40. Which is a marsupial?
- Whitetail deer
  - Raccoon
  - Woodchuck
  - Virginia opossum
  - Striped skunk
41. Which is nocturnal?
- Woodchuck
  - 13 lined ground squirrel
  - Southern flying squirrel
  - Eastern chipmunk
  - Red squirrel
42. Which is an insectivore?
- Shorttail shrew
  - Eastern chipmunk
  - Meadow jumping mouse
  - Eastern pipistrelle
  - Both a and d
43. How many teeth does a White-tailed deer have?
- 22
  - 28
  - 32
  - 36
  - 40
44. Besides humans, what other animal gets a rash from poison ivy?
- Pigs
  - Dogs
  - Birds
  - Rabbits
  - Horses
45. What is the name of a Gray squirrel's home?
- Nest
  - Cache
  - Dray
  - Hollow
  - Site
46. A five-year bird study is being done in Ohio right now as a follow up to a study 20 years ago. What is being determined?
- What animals winter in Ohio
  - What birds nest in Ohio
  - What birds migrate through Ohio
  - What birds are extirpated from Ohio
  - All of the above
47. Which is the largest woodpecker in Ohio?
- Hairy
  - Downy
  - Red-bellied
  - Pileated
  - Red-headed

### **Matching**

- 
48. Christmas fern A. The only fern in the Northeastern US with palmately branched fronds.
49. Maidenhair fern B. One-cut fronds that are usually green through the winter.
50. Bracken fern C. Thrice-cut fronds that are basically triangular in shape.
- D. None of the above