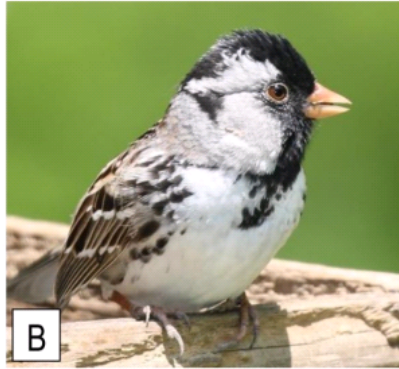
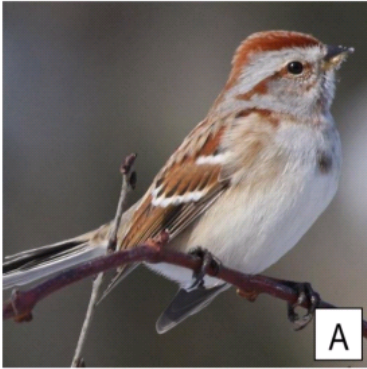


130 points possible

Note: throughout this exam, there are "fill-in-the-blank" questions that ask you to name groups/birds from the National Birds List. Please type them **exactly** as they appear in the official list or Scilympiad will not grade them correctly!

Station 1: Questions 1-8 use these images.



1. (1.00 pts) What is Bird A's common name?

Chipping Sparrow

2. (1.00 pts) What is Bird B's common name?

Harris's Sparrow

3. (1.00 pts) Which of these bird(s) is/are known to be highly sexually dimorphic by size?

(Mark **ALL** correct answers)

- ☐ A) A
- ☐ B) B
- ☐ C) Both
- ☒ D) Neither

4. (1.00 pts) These birds both prefer to forage:

- ☒ A) On the ground
- ☐ B) In trees
- ☐ C) Over large bodies of water
- ☐ D) In low bushes
- ☐ E) N/A: These birds have different foraging preferences

5. (1.00 pts) Which of these bird(s) would likely be found in a park in Texas outside of breeding season?

- ☐ A) A
- ☐ B) B
- ☒ C) Both

☐ D) Neither

6. (1.00 pts) How many broods does Bird B typically produce per year? Write your answer as a numeric value.

1

7. (1.00 pts) T/F: Bird B may be found eating conifer needles.

☒ A) T

☐ B) F

8. (1.00 pts) Which of these bird(s) have been seen displaying social behavior?

☐ A) A

☐ B) B

☒ C) Both

☐ D) Neither

Station 2: Questions 9-16 use this image.



9. (1.00 pts) What is this bird's common name?

screech owl

10. (1.00 pts) T/F: This bird typically nests on the ground.

☐ True ☒ False

11. (1.00 pts) This bird's wingspan is approximately ____ inches.

Expected Answer: 19-24in

12. (2.00 pts) Which of the following is/are important for this bird's habitat? Select all that apply.

(Mark **ALL** correct answers)

- ☒ A) Trees
- ☒ B) Standing water
- ☐ C) Cold weather
- ☐ D) Lots of rain

13. (2.00 pts) With what type of snake does this bird have a mutualistic relationship? Explain this relationship.

Expected Answer: (2 points, 1 point for correct snake, 1 point for explanation) Blind snakes. The snakes burrow in the cavity and feed on insects that may be parasitic

14. (1.00 pts) In what region(s) of the US is this bird found? Select all that apply.

(Mark **ALL** correct answers)

- ☒ A) Northeast
- ☒ B) Southeast
- ☐ C) Northwest
- ☐ D) Southwest
- ☒ E) Midwest
- ☐ F) None

15. (1.00 pts) Despite its ear tufts, this bird is not able to hunt by sound.

- ☐ True ☒ False

16. (1.00 pts) What is this bird's IUCN Red List status?

Least Concern

Station 3: Questions 17-24 use this image.



17. (1.00 pts) These birds are in the same order.

- ☒ True ☐ False

18. (1.00 pts) Which of these birds has a wider year-round range?

- ☐ A) A
- ☒ B) B
- ☐ C) Both
- ☐ D) Neither

19. (1.00 pts) Is Bird A nocturnal or diurnal?

- ☒ A) Nocturnal
- ☐ B) Diurnal

20. (1.00 pts) How does Bird A use bread crusts to aid in its search for food?

Expected Answer: They use them as bait to lure fish.

21. (2.00 pts) List two natural predators of Bird B (adults only).

Expected Answer: Bald eagles, golden eagles, great horned owls, Harris's hawks

22. (1.00 pts) T/F: Bird B is likely to be found in Texas during its breeding season.

- ☐ True ☒ False

23. (1.00 pts) What is Bird A's approximate wingspan?

Expected Answer: 25-27in/64-68cm

24. (1.00 pts) What is another name for colonies of Bird B?

Heronry

Station 4: Questions 25-32 use this image.



25. (1.00 pts) What is this bird's scientific name?

Mniotilta varia

26. (1.00 pts) What is the scientific name of this bird's family?

Parulidae

27. (1.00 pts) Explain the etymology of this bird's genus name.

Expected Answer: Mniotilta means "moss-plucking"

28. (1.00 pts) Are eggs of this species incubated by the male, female, or both?

- ☐ A) Male
- ☒ B) Female
- ☐ C) Both
- ☐ D) Neither

29. (1.00 pts) This bird primarily eats...

- ☒ A) Insects
- ☐ B) Fish
- ☐ C) Spiders
- ☐ D) Plant Material

30. (1.00 pts) What is this species' IUCN Red List classification?

Least Concern

31. (1.00 pts) This bird's nests are often parasitized by what other bird on the Official List? (common name)

Brown-headed cowbird

32. (1.00 pts) Is this species docile or aggressive?

- ☐ A) Docile
- ☒ B) Aggressive

Station 5: Questions 33-40 use this image.



33. (1.00 pts) What is this bird's common name?

Loggerhead Shrike

34. (1.00 pts) How can this bird kill prey larger than itself?

Expected Answer: Impales them on sharp objects or tucks them in forks between branches

35. (1.00 pts) How old are these birds when they leave the nest?

Expected Answer: 17-21 days

36. (1.00 pts) What is this bird's approximate incubation period?

Expected Answer: 16-17 days

37. (1.00 pts) Approximately how long do these birds live in the wild?

Expected Answer: 7-8 years

38. (1.00 pts) T/F: This species is polygamous.

☐ True ☒ False

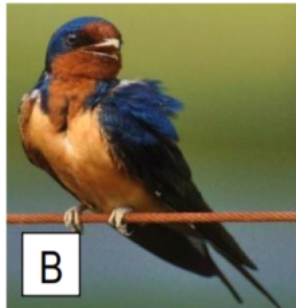
39. (1.00 pts) T/F: This species' primary diet is carrion and roadkill.

☐ True ☒ False

40. (1.00 pts) This species typically lays approximately how many eggs at once?

Expected Answer: 5-6 eggs

Station 6: Questions 41-48 use this image.



41. (1.00 pts) What is Bird A's common name?

Cliff Swallow

42. (1.00 pts) What is Bird B's common name?

Barn Swallow

43. (1.00 pts) These birds are in the same... (Select all that apply)

(Mark **ALL** correct answers)

- ☒ A) Kingdom
- ☒ B) Phylum
- ☒ C) Class
- ☒ D) Order
- ☒ E) Family
- ☐ F) Genus and species

44. (1.00 pts) Which bird is larger in size?

- ☐ A) A
- ☒ B) B
- ☐ C) Neither

45. (1.00 pts) T/F: Both birds are insectivores.

- ☒ True ☐ False

46. (1.00 pts) Which bird has a larger geographic range during mating season?

- ☐ A) A
- ☒ B) B
- ☐ C) Neither

47. (1.00 pts) T/F: Bird A avoids nesting in manmade structures.

- ☐ True ☒ False

48. (1.00 pts) How many days after hatching do young of Species B leave the nest?

Expected Answer: 20-21 days

Station 7: Questions 49-56 use the following image.



49. (1.00 pts) What is this bird's common name?

Common nighthawk

50. (2.00 pts) What are two factors that may be contributing to this bird's decline across North America?

Expected Answer: Changes in land use; pesticides; collision with cars; habitat loss

51. (1.00 pts) What do young of this species eat?

Expected Answer: Regurgitated insects

52. (1.00 pts) What is this bird's typical lifespan in the wild?

Expected Answer: 4-5 years

53. (1.00 pts) What is the last part of the body to finish molting during this bird's post-juvenile molt?

Expected Answer: Wing-coverts and rectrices

54. (1.00 pts) Describe the color of this bird's eggs.

Expected Answer: White background with brown speckles

55. (2.00 pts) List 2 natural predators of this bird.

Expected Answer: Cats, golden eagles, great horned owls, peregrine falcons, dogs, coyotes, foxes, hawks, American kestrels, owls, crows, ravens, snakes

56. (1.00 pts) T/F: This bird can be found throughout most of the continental US during breeding season.

☒ True ☐ False

Station 8: Questions 57-64 refer to this image.



57. (1.00 pts) What is this bird's common name?

Magnolia warbler

58. (1.00 pts) What is the scientific name of this bird's family?

Parulidae

59. (2.00 pts) Why do males of this species have 2 different song types?

Expected Answer: One is to defend his territory from intruding males, and one is to attract females.

60. (1.00 pts) T/F: Males of this species build the nest, while females feed the young.

☐ True ☒ False

61. (1.00 pts) T/F: This bird's incubation period is 2 weeks long.

☒ True ☐ False

62. (1.00 pts) How many broods does this bird typically produce per year? Enter a numeric value

1

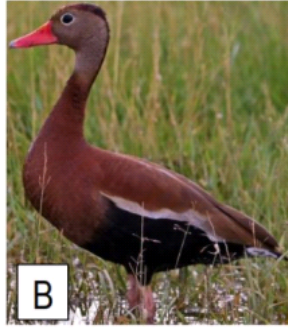
63. (1.00 pts) How might this bird be beneficial to forests?

Expected Answer: It eats spruce budworms and other insect pests.

64. (1.00 pts) What is this bird's IUCN Red List status?

Least Concern

Station 9: Questions 65-72 refer to this image.



65. (1.00 pts) What is Bird A's common name?

Black Tern

66. (1.00 pts) What is Bird B's common name?

Expected Answer: Black-bellied whistling duck

67. (3.00 pts) Which of the following distinguish Bird B from other ducks? Select all that apply.

(Mark **ALL** correct answers)

- ☒ A) Lack of sexual dimorphism
- ☒ B) Long-term pair bonds
- ☒ C) Lack of complex pair-forming behavior
- ☐ D) Terrestrial habitat preferences
- ☐ E) Trick question. Bird B is not a duck.

68. (1.00 pts) What is Bird A's approximate wingspan, in cm?

Expected Answer: 57-60cm

69. (1.00 pts) Which bird lays more eggs at once?

- ☐ A) A
- ☒ B) B
- ☐ C) Both are equal.

70. (1.00 pts) T/F: Young of both species are known to be altricial.

☐ True ☒ False

71. (1.00 pts) T/F: Both species tend to nest in colonies.

☒ True ☐ False

72. (1.00 pts) Which of these birds is/are likely to be found in Texas during its breeding season?

(Mark **ALL** correct answers)

- ☐ A) A
- ☒ B) B
- ☐ C) Neither

Station 10: Questions 73-80 use this image.



73. (1.00 pts) What is the scientific name of this bird's family?

Rallidae

74. (1.00 pts) What is this bird's common name?

Purple Gallinule

75. (1.00 pts) T/F: This bird is known for having a high tolerance for saltwater.

☐ True ☒ False

76. (1.00 pts) T/F: This bird is known to eat other birds' eggs and young.

☒ True ☐ False

77. (1.00 pts) At what age, in weeks, can young of this species fly? Enter an integer.

9

78. (1.00 pts) Are young of this species precocial or altricial?

☒ A) Precocial

☐ B) Altricial

79. (1.00 pts) In what region of the US is this bird typically found?

☐ A) Northeast

☒ B) Southeast

☐ C) Northwest

☐ D) Southwest

80. (1.00 pts) What is this bird's typical incubation period?

Expected Answer: 20-23 days

Station 11: Questions 81-88 refer to this image.



81. (1.00 pts) What is Bird A's common name?

Downy Woodpecker

82. (1.00 pts) What is Bird B's common name?

Black-Necked Stilt

83. (1.00 pts) What is the scientific name of Bird B's family?

Recurvirostridae

84. (1.00 pts) T/F: Bird B is known for feeding almost exclusively on insects.

☐ True ☒ False

85. (1.00 pts) Describe Bird A's typical habitat.

Expected Answer: Open, deciduous woodlands

86. (1.00 pts) Approximately how deep are Bird A's typical nests?

Expected Answer: 6-12 inches

87. (1.00 pts) What is Bird B's IUCN Red List status?

Least Concern

88. (1.00 pts) How old are young of Bird B's species at their first flight?

Expected Answer: 4-5 weeks

Station 12: Questions 89-96 refer to this image.



89. (1.00 pts) What is this bird's common name?

Spotted Towhee

90. (1.00 pts) What is the scientific name of this bird's family?

Passerellidae

91. (1.00 pts) During what season is this bird likely to be found in Texas?

Winter

92. (1.00 pts) Do these birds typically forage on the ground or high in trees?

- ☒ A) On the ground
☐ B) High in trees

93. (1.00 pts) What does this bird typically eat?

Expected Answer: Seeds

94. (1.00 pts) What is this bird's primary nest predator?

Expected Answer: Ground-dwelling snakes

95. (1.00 pts) What is this bird's approximate length?

Expected Answer: 6.7-8.3"

96. (1.00 pts) What is this species' main sexually dimorphic trait?

Expected Answer: Color (+1): Males have a darker head, upper body, and tail but have a white belly. Females are dark brown/grey instead of black.

Station 13: Questions 97-104 refer to this image.



97. (1.00 pts) What is Bird A's common name?

Brown creeper

98. (1.00 pts) What is Bird B's common name?

Cactus Wren

99. (1.00 pts) What does "endemic" mean in relation to ornithology?

Expected Answer: Found exclusively in a certain location

100. (1.00 pts) What is the maximum number of broods Bird B may produce in a single year? Enter a numeric value.

3

101. (1.00 pts) Which bird is typically smaller?

- ☒ A) A
- ☐ B) B
- ☐ C) Neither

102. (1.00 pts) What material(s) does Bird A typically use to build nests?

Expected Answer: Twigs, bark strips, moss, leaves

103. (1.00 pts) T/F: Bird B is known for having multiple mates in a single season.

- ☐ True ☒ False

104. (1.00 pts) At what age do young of Species B typically leave the nest?

Expected Answer: 19-23 days

Station 14: Questions 105-112 refer to this image.



105. (1.00 pts) What is this bird's common name?

Scarlet tanager

106. (1.00 pts) What is the scientific name of this bird's family?

Cardinalidae

107. (2.00 pts) What sex is this bird? How can you tell?

Expected Answer: Female, yellow coloration

108. (1.00 pts) In what region of the US is this bird likely to be found during its breeding season?

- ☒ A) Northeast
☐ B) Southeast
☐ C) Northwest
☐ D) Southwest
☐ E) None of the above

109. (1.00 pts) T/F: This species is known for being resilient to habitat fragmentation, which has allowed their range to continually expand despite urbanization.

☐ True ☒ False

110. (1.00 pts) T/F: Both males and females of this species are known to sing.

☒ True ☐ False

111. (1.00 pts) At what height above the ground do these birds typically nest?

Expected Answer: 10-30'

112. (2.00 pts) Which of the following might this bird eat? Select all that apply.

(Mark **ALL** correct answers)

- ☐ A) Fish
- ☒ B) Insects
- ☒ C) Berries
- ☐ D) Seeds

Station 15 (No image): Questions 113-120.

113. (1.00 pts) T/F: Large birds generally have slower heart rates than small birds.

- ☒ True ☐ False

114. (1.00 pts) Why do many birds have a large breastbone?

Expected Answer: It holds the muscles necessary for flight.

115. (1.00 pts) What is the advantage birds gain from having hollow bones?

Expected Answer: Their skeleton is lighter and sturdier, which allows for flight.

116. (1.00 pts) Moving from front to back, bones in a bird's head include:

- ☒ A) Forehead → sinciput → occiput
- ☐ B) Sinciput → occiput → forehead
- ☐ C) Sinciput → forehead → occiput
- ☐ D) Forehead → occiput → sinciput
- ☐ E) Occiput → forehead → sinciput
- ☐ F) Occiput → sinciput → forehead

117. (1.00 pts) T/F: Birds lack a diaphragm.

- ☒ True ☐ False

118. (1.00 pts) How many chambers does a bird's heart have? Enter a numerical value.

4

119. (1.00 pts) What is the function of a crop in a bird?

Expected Answer: Softens and stores food temporarily, which regulates its flow through the digestive system

120. (1.00 pts) Approximately how many different muscles do most birds have?

Expected Answer: 175