From Slide 1 to 6 are identification matching questions (Order Only). You may use the key on the right side of this paper if you wish to.

Slide 1 (1.5) [01:30] total = 6

1. _____
2. _____
3. _____

Slide 2 (1.5) [03:00] total = 6

4. _____
5. _____
6. _____

Slide 3 (1.5) [04:30] total = 6

7. _____
8. _____
9. _____

Slide 4 (1.5) [06:00] total = 6

10. _____
11. _____
12. _____

Slide 5 (1.5) [07:30] total = 6

13. _____
14. _____
15. _____

Slide 6 (1.5) [09:00] total = 6

16. _____
17. _____
18. _____

A. Anoplura
B. Coleoptera
C. Collembola
D. Diptera
E. Grylloblattodea
F. Homoptera
G. Hymenoptera
H. Isoptera
I. Lepidoptera
J. Mallophaga
K. Megaloptera
L. Neuroptera
M. Odonata
N. Phasmatodea
O. Plecoptera
P. Protura
Q. Thysanoptera
R. Trichoptera
S. Strepsiptera

From Slide 7 to 13 are identification matching questions (Families Only). You may use the key on the right side of this paper if you wish to.

Slide 7 (1.5) [10:30] total = 6

19. _____
20. _____
21. _____

Slide 8 (1.5) [12:00] total = 6

22. _____
23. _____
24. _____

Slide 9 (1.5) [13:30] total = 6

25. _____
26. _____
27. _____

Slide 10 (2.0) [15:30] total = 9

28. _____
29. _____
30. _____

Slide 11 (1.5) [17:00] total = 6

31. _____
32. _____
33. _____

Slide 12 (1.5) [18:30] total = 6

34. _____
35. _____
36. _____

Slide 13 (1.5) [20:00] total = 6

37. _____
38. _____
39. _____

A. Aeshnidae
B. Arctiidae
C. Asilidae
D. Cantharidae
E. Coenagrionidae
F. Colletidae
G. Hesperiidae
H. Lestidae
I. Lucanidae
J. Lycaenidae
K. Lygaeidae
L. Megachilidae
M. Miridae
N. Muscidae
O. Papilionidae
P. Passalidae
Q. Pentatomidae
R. Pyralidae
S. Saturniidae
T. Silphidae
U. Simuliidae
V. Siricidae
W. Sphingidae
X. Syrphidae
Y. Tingidae
Z. Vespidae

From Slide 14 to 17 are straight out identifying the Order, Family, and Common Name.

Slide 14 (1.5) [21:30] total = 10

40. State A's Order. 40. _____
41. State A's Family. 41. _____
42. State A's Common Name. 42. _____
43. State B's Order. 43. _____
44. State B's Family. 44. _____
45. State B's Common Name. 45. _____

Slide 15 (1.5) [23:00] total = 10

46. State A's Order. 46. _____
47. State A's Family. 47. _____
48. State A's Common Name. 48. _____
49. State B's Order. 49. _____
50. State B's Family. 50. _____
51. State B's Common Name. 51. _____

Slide 16 (1.5) [24:30] total = 10

52. State A's Order. 52. _____
53. State A's Family. 53. _____
54. State A's Common Name. 54. _____
55. State B's Order. 55. _____
56. State B's Family. 56. _____
57. State B's Common Name. 57. _____

Slide 17 (1.5) [26:00] total = 10

58. State A's Order. 58. _____
59. State A's Family. 59. _____
60. State A's Common Name. 60. _____
61. State B's Order. 61. _____
62. State B's Family. 62. _____
63. State B's Common Name. 63. _____

From Slide 18 to 23 are anatomy and/or behavior questions. Use the following slide to answer the questions fully.

Slide 18 (1.5) [27:30] total = 24

64. Which one is Complete Metamorphosis? Which one is Incomplete Metamorphosis? 64. _____
65. List the main stages of Complete Metamorphosis in order. 65. _____
66. List the main stages of Incomplete Metamorphosis in order. 66. _____

Slide 19 (3.0) [30:30] total = 24

67. Which one is Cursorial? 67. ____
68. What does this type of leg do well on? 68. _____
69. Which one is Saltatorial? 69. ____
70. What does this type of leg do well on? 70. _____
71. Which one is Natorial? 71. ____
72. What does this type of leg do well on? 72. _____
73. Which one is Raptorial? 73. ____
74. What does this type of leg do well on? 74. _____

Slide 20 (3.5) [34:00] total = 45

75. Give 2 organs that deals with Reproductive System. Select one of two organ, and describe its purpose. 75. _____
76. Give 3 organs that deals with Digestive System. Select two of three organs, and describe their purpose. 76. _____
77. Give 2 organs that deals with Nervous System. Select one of two organ, and describe its purpose. 77. _____

Slide 21 (2.0) [36:00] total = 25

78. This is a picture of typical insect's wing venation. List the 5 main longitudinal veins that you can identify from this photo from the leading edge.

78. _____
_____
_____
_____
_____

79. On the NYS list, there are 3 Orders that does not have the main longitudinal vein located at the leading edge. Identify 2 of 3 Orders.

79. _____
_____

Slide 22 (4.5) [40:30] total = 42

80. What type of antenna is A?
81. Give an insect order that has this antenna.
82. What type of antenna is B?
83. Give an insect order that has this antenna.
84. What type of antenna is C?
85. Give an insect order that has this antenna.
86. What type of antenna is D?
87. Give an insect order that has this antenna.
88. What type of antenna is E?
89. Give an insect order that has this antenna.
90. What type of antenna is F?
91. Give an insect order that has this antenna.

80. _____
81. _____
82. _____
83. _____
84. _____
85. _____
86. _____
87. _____
88. _____
89. _____
90. _____
91. _____

Slide 23 (1.5) [42:00] total = 17

92. Define what Ommatidium is.

92. _____
_____
_____

93. Out of A to E, select three and identify them.

93. _____
_____
_____

Slide 24 (1.5) [43:30] total = 11

94. Identify the Family of this insect — 94. _____
95. Do they go through complete or incomplete Metamorphosis? — 95. _____
96. Describe how they can be *helpful* for agriculture — 96. _____

Slide 25 (1.5) [45:00] total = 11

97. Identify the Family of this insect (Horde) — 97. _____
98. Describe what is going on here. — 98. _____
99. How do these little critters communicate with others? — 99. _____

Slide 26 (5.0) [50:00] total = 80

100. Construct a simple dichotomous key that can be used to identify the insects on the screen. Your key must contain all the following terms.

Moniliform
Saltatorial
Elytron
Siphoning