

INSECT CLASSIFICATION, IDENTIFICATION, ANATOMY AND DEVELOPMENT

Use the following Order names for the answers to questions 1 – 12

A. Blattodea
B. Coleoptera
C. Collembola
D. Dermaptera

E. Diptera
F. Hemiptera
G. Hymenoptera
H. Isoptera

I. Lepidoptera
J. Orthoptera
K. Siphonaptera
L. Thysanura

1. L The Order of Silverfish is:
2. B The Order of Cockroaches is:
3. C The Order of Earwigs is:
4. D The Order of Termites is:
5. H The Order of Bed Bugs is:
6. A The Order of Beetles is:
7. I The Order of Butterflies and Moth is:
8. F The Order of Flies and Mosquitoes is:
9. K The Order of Fleas is:
10. G The Order of Bees, Wasps, Hornets, Ants, Yellow Jackets, and Horntails is:
11. J The Order of Springtails is:
12. L The Order of Grasshoppers is:

Use the following types of metamorphosis to answer questions 13 – 25

A. Without Metamorphosis
B. Gradual Metamorphosis

C. Incomplete Metamorphosis
D. Complete Metamorphosis

13. A What type of metamorphosis do Silverfish have?
14. B What type of metamorphosis do Cockroaches have?
15. D What type of metamorphosis do Beetles have?
16. K What type of metamorphosis do Fleas have?
17. H What type of metamorphosis do Termites have?
18. C What type of metamorphosis do Springtails have?
19. G What type of metamorphosis do Bees, Wasps, Hornets, & Ants have?
20. B What type of metamorphosis do Grasshoppers have?
21. F What type of metamorphosis do Flies and Mosquitoes have?
22. H What type of metamorphosis do Bed Bugs have?
23. I What type of metamorphosis do Butterflies and Moths have?
24. J What type of metamorphosis do Earwigs have?
25. L What type of metamorphosis do Dragonflies and Damselflies have?

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Use these types of mouthparts of the following adult insects to answer questions 26 – 38

- | | | |
|---------------------|--------------------|--------------------|
| A. Chewing | C. Rasping-sucking | E. Siphoning |
| B. Piercing-sucking | D. Sponging | F. Chewing-lapping |

26. _____ What kind of mouthparts do Silverfish have?
27. _____ What kind of mouthparts do Cockroaches have?
28. _____ What kind of mouthparts do Bees and Wasps have?
29. _____ What kind of mouthparts do Butterflies and Moths have?
30. _____ What kind of mouthparts do Bed Bugs have?
31. _____ What kind of mouthparts do Mosquitoes have?
32. _____ What kind of mouthparts do Thrips have?
33. _____ What kind of mouthparts do Beetles have?
34. _____ What kind of mouthparts do Termites have?
35. _____ What kind of mouthparts do Earwigs have?
36. _____ What kind of mouthparts do Dragonflies and Damselflies have?
37. _____ What kind of mouthparts do Fruit flies have?
38. _____ What kind of mouthparts do Fleas have?

Use the following numbers of pair/s of wings to answer questions 39 – 50

39. 2 How many pairs of wings do Bees and Wasps have?
40. 2 How many pairs of wings do Beetles have?
41. 0 How many pairs of wings do Bed Bugs have?
42. 1 How many pairs of wings do Flies have?
43. 0 How many pairs of wings do Silverfish have?
44. 2 How many pairs of wings do Butterflies and Moths have?
45. 2 How many pairs of wings do Cockroaches have?
46. 0 How many pairs of wings do Springtails have?
47. 0 How many pairs of wings do Fleas have?
48. 2 How many pairs of wings do Termites have?
49. 1 How many pairs of wings do Earwigs have?
50. _____ How many pairs of wings do Mosquitoes have?

PESTICIDES

Use the following Classes of Pesticides to answer questions 51 – 100

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|--|---|---|
| <p>A. Botanical
B. Inorganic (mineral)
C. Synthetic pyrethroid
D. Organophosphate
E. Carbamate
F. Chlorinated hydrocarbons</p> | <p>G. Chloronicotines
H. Phenyl pyrazoles
I. Amidinohydrazones
J. Fumigants
K. Insect Growth Regulators
L. Fluoroaliphatic sulfonamides</p> | <p>M. Single-dose anticoagulants
N. Multiple-dose anticoagulants
O. Non-anticoagulant rodenticides
P. Pyrrol or pyrazole analog</p> |
|--|---|---|

51. C Cypermethrin (Demon)
52. C Propetamphos (Catalyst)
53. C Fenoxycarb (Torus, Logic)
54. C Carbaryl (Sevin)
55. C Diazinon (Diazinon)
56. C Cyfluthrin (Tempo, CyKick)
57. C Boric Acid (Borid)
58. C Permethrin (Ultraban)
59. C Malathion (Malathion)
60. D Warfarin
61. D Isofenphos (Pryfon)
62. K Methoprene (Precor)
63. D Dichlorvos (DDVP)
64. A Abamectin (Avert)
65. C Fipronil (Termidor)
66. C Hydramethylnon (MaxForce)
67. G Imidachloprid (Premise)
68. L Sulfuramid (ProControl)
69. D Chlorpyrifos (Dursban)
70. B Silica Aerogel (Drione)
71. M Brodifacoum (Talon)
72. C Resmethrin (Respond)
73. C Bendiocarb (Ficam W)
74. C Lambda cyhalothrin (Demand CS)
75. D Bromethalin (Vengeance)
76. C Propoxur (Baygon)
77. K Hydroprene (Gentrol)
78. B Diatomaceous earth (Diatect)
79. A Zinc phosphide (ZP tracking powder)
80. M Diphacinone (Eaton's AC Formula 50)
81. O Cholecalciferol (Quintox)
82. M Bromodiolone (Maki)
83. S Sulfuryl fluoride (Vikane)
84. C Chlordane
85. C Strychnine
86. C Hydrogen phosphide (Phostoxin)
87. C Lindane
88. C Acephate (Orthene)
89. C Sodium Fluoride
90. C Methyl bromide (Metho-Gas)

91. F Paradichlorobenzene (moth balls)
92. F Heptachlor
93. C Hexaflumeron (Recruit)
94. P Chlorfenapyr (Phantom)
95. K Diflubenzuron (Advance)
96. C Pyriproxifen (Nylar)
97. C Noviflumeron (Recruit III)
98. F DDT
99. C Chloropicrin
100. C Aldrin