

2018 Manuel E Chapter 5 Insects and Mites Quiz

1. In ___ metamorphosis there are 4 life stages; egg, larva, pupa, and adult. The larvae look different than adults. In ___ metamorphosis the nymphs resembles the adult.
 - A. Complete, incomplete
 - B. Incomplete, complete
 - C. Complete, segmented
 - D. Segmented, unsegmented

2. ___ Have 4 pairs of legs and no wings while ___ have three body parts (head, thorax, abdomen), 3 pairs of legs and 4 wings.
 - A. Class Insecta (insects), Class Arachnida (arachnids)
 - B. Phylum Arthropoda, Class Crustacea
 - C. Class Crustacea, Class Insecta
 - D. Class Arachnida (arachnids), Class Insecta (insects)

3. Grasshoppers, beetles and caterpillars have ___ mouthparts while aphids, leafhoppers and thrips have ___ mouthparts.
 - A. Chewing, mining
 - B. Chewing, piercing-sucking
 - C. Mining, chewing
 - D. Piercing-sucking, mining

4. Order ___ means straight wings and includes grasshoppers and crickets(chewing mouthparts). Order ___ means half solid and half membranous wing and includes plant bugs (piercing-sucking mouthparts). Both Orders have incomplete metamorphosis.
 - A. Orthoptera, Hemiptera
 - B. Lepidoptera, Hymenoptera
 - C. Diptera, Coleoptera
 - D. Homoptera, Thysanoptera

5. Order ___ have even sized wings and include aphids and scales (sucking, rasping mouthparts). Order ___ means fringed wings and includes thrips (sucking, rasping mouthparts). Both Orders have incomplete metamorphosis.
 - A. Diptera, Coleoptera
 - B. Lepidoptera, Hymenoptera
 - C. Homoptera, Thysanoptera
 - D. Orthoptera, Hemiptera

6. Order ___ means scale wings, includes moths and butterflies, and differ from other orders by their large, scale-covered wings. Order ___ means has a hymen or a groove that joins the first and second pair of wings and includes sawflies, wasps, bees and ants. Both Orders have complete metamorphosis
 - A. Orthoptera, Hemiptera
 - B. Diptera, Coleoptera
 - C. Lepidoptera, Hymenoptera
 - D. Homoptera, Thysanoptera

7. **Order ____ means 2 wings and includes flies, mosquitoes, gnats and midges. Order ____ means 2 wings and includes flies, mosquitoes, gnats and midges. Both Orders have complete metamorphosis**
- A. Lepidoptera, Hymenoptera
 - B. Diptera, Coleoptera
 - C. Orthoptera, Hemiptera
 - D. Homoptera, Thysanoptera
8. **Insects feed on plants in different ways. ____ Feed on leaves and may cause skeletonization of leaves by feeding between veins, while ____ feed inside leaves.**
- A. Leafminers, leaf-chewing insects
 - B. Parasitoids, borers
 - C. Predators, borers
 - D. Leaf-chewing insects, leafminers
9. **Insects feed on plants in different ways. ____ are an abnormal growth of leaf, stem, twig, or flower tissue caused by an organism. ____ feed inside the trunk, branches or roots of a plant.**
- A. Galls, borers
 - B. Parasitoids, borers
 - C. Leafminers, branchminers
 - D. Borers, predators
10. **Insects feed on plants in different ways. ____ carry pollen from one plant to others, capture prey, and ____ lay their eggs on or in their host.**
- A. Leafminers, parasitoids, borers
 - B. Galls, predators, borers
 - C. Pollinators, predators, parasitoids
 - D. Pollinators, predators, galls

KEY 2018 Manuel E Chapter 5 Insects and Mites Quiz

- 1. A: Complete, incomplete
- 2. D: Class Arachnida (arachnids), Class Insecta (insects)
- 3. B: Chewing, piercing-sucking
- 4. A: Orthoptera, Hemiptera
- 5. C: Homoptera, Thysanoptera
- 6. C: Lepidoptera, Hymenoptera
- 7. B: Diptera, Coleoptera
- 8. D: Leaf-chewing insects, leafminers
- 9. A: Galls, borers
- 10. C: Pollinators, predators, parasitoids