Advanced Entomology Foundations

Entomology · Answer Key · 18 Questions

1. Which structure in the insect digestive system is primarily responsible for the absorption of nutrients?

A) Crop
B) Proventriculus
C) Midgut
D) Hindgut

2. In insect respiration, what is the specific name of the valve-like opening that allows air to enter the tracheal system?

A) Spiracle
B) Tracheole
C) Taenidia
D) Haemocoel

3. Which order of insects is characterized by having forewings that are hardened into structures called elytra?

A) Diptera
B) Coleoptera
C) Hymenoptera
D) Lepidoptera

4. What is the term for the process of insect growth involving the shedding of the exoskeleton?

A) Metamorphosis
B) Ecdysis
C) Instar
D) Ametaboly

5. Which specialized sensory structures located on an insect's antennae are primarily used for chemoreception?

A) Ocelli
B) Sensilla
C) Tympana
D) Stipes

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6. The insect circulatory system is an open system where the primary fluid, known as what, bathes the organs?

A) Lymph
B) Plasma
C) Haemolymph
D) Interstitial fluid

7. Which segment of the insect thorax typically bears the primary flight muscles and the forewings?

A) Prothorax
B) Mesothorax
C) Metathorax
D) Hypothorax

8. What is the function of the malpighian tubules in an insect?

A) Digestion
B) Excretion
C) Respiration
D) Reproduction

9. Which class of arthropods, distinct from Insecta, is characterized by having two body regions and four pairs of legs?

A) Crustacea
B) Chilopoda
C) Arachnida
D) Diplopoda

10. What is the term for an insect that undergoes incomplete metamorphosis, specifically lacking a pupal stage?

A) Hemimetabolous
B) Holometabolous
C) Ametabolous
D) Polymetabolous

11. Which hormone is responsible for triggering the molting process in insects?

A) Juvenile hormone
B) Ecdysone
C) Adrenaline
D) Oxytocin

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12. In the context of insect flight, what are the small, club-shaped sensory organs found on the metathorax of Diptera?

A) Halteres
B) Tegmina
C) Cerci
D) Styli

13. Which part of the insect leg is typically attached directly to the thorax?

A) Tibia
B) Femur
C) Coxa
D) Tarsus

14. What is the scientific name for the upper lip of an insect's mouthparts?

A) Mandible
B) Maxilla
C) Labrum
D) Labium

15. Which organ in honey bees is used for the production of royal jelly?

A) Hypopharyngeal gland
B) Salivary gland
C) Wax gland
D) Rectal gland

16. What are the simple, light-detecting eyes found on the heads of many adult insects called?

A) Compound eyes
B) Ocelli
C) Ommatidia
D) Facets

17. Which insect order contains species that possess a specialized 'sucking' mouthpart known as a proboscis?

A) Lepidoptera
B) Isoptera
C) Orthoptera
D) Ephemeroptera

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18. What is the name of the hardened, plate-like structures that form the dorsal portion of an insect's abdominal segment?

A) Sternite
B) Pleura
C) Tergite
D) Suture

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