Name_____ Team_____

ENTOMOLOGY RUNOFF

Choose the best answer for the following questions. For true or false questions "A" is true and "B" is false.

- 1. Location of the Cerci
- a. Genitalia
- b. Thorax
- c. Fore Wing
- d. Hind Wing
- e. Abdomen
- 2. Order of Metamorphosis
- a. Ametabolous, Hemimetabolous, Holometabolous
- b. Ametabolous, Holometabolous, Hemimetabolous
- c. Hemimetabolous, Ametabolous, Holometabolous
- d. Hemimetabolous, Holometabolous, Ametabolous
- e. Holometabolous, Hemimetabolous, Ametabolous

3. Location of the crop

- a. Anterior to midget
- b. Posterior to midget

Identify the following

- a. Archaeognatha
- b. Grylloblatodea
- c. Orthoptera
- d. Protura



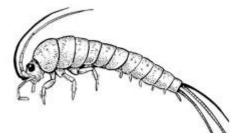












- 8. When do pole cells differentiate?
- a. Early embryogenesis
- b. Middle of embryogenesis
- c. End of embryogenesis
- d. Depends on the insect
- e. Never
- 9. All of the following conditions must be met before an insect begins flight except
- a. Warm muscles b. Humidity c.Wind conditions d. All of the above

Which is the outer most germ layer?

a. Mesoderm b. Endoderm c. Ectoderm d. Exoskeleton e. External

Which of the following is not a function of haemolymph?

- a. Transport and Storage
- b. Hydraulic Medium
- c. Lubricant
- d. Heat Transfer
- e. All are functions

Which of the following cannot be a color of the haemolymph?

- a. Colorless
- b. Green
- c. Yellow
- d. Pink
- e. Red

T/F: Sutures are lines on the surface of an insect which can only be examined using a microscope.

T/F: Sulcus demarcate internal projections of the exoskeleton

Which of the following is (are) a part of the excretory system? a. Mandibles b. Malpighian tubules c. Antennae d. Spiracles e. Nodes of Ranvier

How can Damselflies be curated?

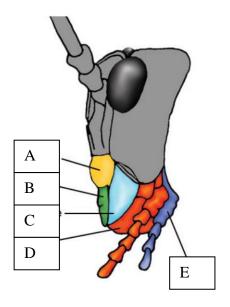
- a. Pin through right side of thorax, spread wings
- b. Pin through left side of thorax
- c. Alcohol vial

d. Pin through right side of mesothorax (spreading left wing optional)

About how many species of insect pests exist? a. 100 b. 1,000 c. 10,000 d. 50,000 e. 100,000

Entomology is the study of

- a. Life b. Everything c. Insects and their relationship to humans, the environment, and other organisms
- d. Humans and their relationship to insects e. Wildlife
- 19. What is attached to the thorax?
- A. Wings
- B. Legs
- C. Valves
- D. A and B
- E. A and C



Refer to the diagram for questions 20-22 20. What part of the body is this?

- A. Anterior
- B. Legs
- C. Mouth
- D. Ears
- E. Nose

21. Which is the Maxilla? A. B. C. D. E

22. Which is the Labium? A. B. C. D. E

23. What is an adult with wings externally on the nymph body called? ______24. What are the steps of complete metamorphosis? ______-

25. Name some benefits of insects in a community.

26. Name some disadvantages of insects in a community.

27. _____ are used to collect most adult flying insects 28. What are some methods used to preserve insects?

29. Fleas can cause _____

30. Name 2 diseases caused by ticks.