

D. organs for excretion

Cypress Creek FFA Invitational Online

Entomology Exam

	EST. 1977
1.	An insect's cuticle is primarily made of, which has also been studied for its medicinal properties. A. chitin B. hemolymph C. melanin D. melatonin
2.	Solitary bees build nests in what type of habitat? A. in the soil B. in hollow plant stems C. in existing small tree holes or cavities D. all of the above
3.	Which part of the exoskeleton is formed by a single layer of epithelial cells? A. procuticle B. basement membrane C. cuticulin layer D. epidermis
4.	Which of these occupies the largest volume in an unfertilized insect egg? A. periplasm B. yolk C. embryo D. nucleus
5.	Which of the following insect groups has hemimetabolous development? A. mayflies B. house flies C. ants D. weevils
6.	The insect abdomen contains: A. the digestion tract B. all of the above C. the reproductive tract

7.	The Johnston's organ
	A. all of the above
	B. Is used to detect changes between antennal segments
	C. Senses physical environmental stimuli (vibrations, wind, gravity)
	D. Separates the Class Insecta from the Class Entognatha
8.	The pleural suture lies just posterior to the
	A. episternum
	B. epimeron
	C. trochantin
	D. trochanter
9.	Rigid, inflexible structures of the exoskeleton are called
	A. apodemes
	B. sutures
	C. sclerites
	D. segments
10	.Squash bugs belong to what insect order?
	A. Coleoptera
	B. Diptera
	C. Lepidoptera
	D. Hemiptera
11.	Approximately species of insects are used as food in many
	parts of the world.
	A. 100
	B. 500
	C. 400 D. 200
	D. 200
12	.To which body segment are the elytra attached?
	A. first abdominal B. metathorax
	C. mesothorax
	D. prothorax
	D. promorax
13	The furca is best described as:
	A. An internal brace for the legs.
	B. A hinge for the neck.
	C. A springing organ.
	D. A fulcrum for the wings.
14	.Collophore and furcula are morphological terms associated with which order of insects?

A. Odonata

B. Lepidoptera
C. Collembola
D. Ephemeroptera

15. Which of this	information is	not common	on insect
specimen lab	els?		

- A. county
- B. collector's name
- C. state
- D. soil type
- 16. Firebrats and silverfish are common household pests in the order .
 - A. Hemiptera
 - B. Odonata
 - C. Mecoptera
 - D. Thysanura
- 17. The following are groups of eusocial insects:
 - A. ants
 - B. gall-forming aphids
 - C. termites
 - D. All of these are eusocial insects
- 18. Which structure would not be found on an insect's leg?
 - A. tarsomere
 - B. propodeum
 - C. arolium
 - D. coxa
- 19. The internal organ system of insects that is analogous to the liver in mammals (In insects, it serves to actively transport water and ions from the hemolymph) is the
 - A. malpighian tubules
 - B. peritrophic membrane
 - C. tritocerebrum
 - D. prothoracic gland
- 20. What structure is found in Diptera, but NOT in Hymenoptera?
 - A. cerci
 - B. haltere
 - C. stigma
 - D. stinger
- 21. Some factors contributing to the success of insects are:
 - A. high reproductive rate, the evolution of flight, size
 - B. size, the evolution of flight, lack of wings
 - C. size, a protective cuticle, an efficient nervous system, four pair of legs
 - D. high reproductive rate, the evolution of flight, ability to live without a brain

22. The tracheal s	ystem of an insect is best described as
A a networ	k of hollow tubes
	of interconnecting cells
	pattern of filaments
	d of anaerobic respiration
23. What is the pri	inciple energy source for most insects?
A. vitamins	
B. proteins	
C. cellulose	
D. carbohyo	drates
	re is NOT part of the head capsule of insects?
A. pronotun	
B. tentoriun	
C. antennae)
D. vertex	
25. In what order of together by ha	of insects are the front and hind wings held
A. Hymeno	
B. Hemipte	·
C. Diptera	i d
D. Lepidopt	era
26. What do the or	rders Mantodea and Blattodea have in common?
A. blood su	ckers
B. sucking	mouthparts
C. hind wing	gs are modified into halteres
D. eggs are	produced inside a pouch or ootheca
27. Chemicals rele	eased from plants to attract parasitic or predaceous insects that combat
herbivorous in	sects are called
A. steroids	
B. tannins	
C. kairomor	
D. pheromo	nes
28. The butterfly p	oupa is known as a
A. cocoon	
B. chrysalis	
C. naiad	
D. caterpilla	ar

	ther of modern taxonomy who created the binomial system of nclature was
A.	May Berenbaum
B.	Thomas Say
C.	Carl Linnaeus
D.	Charles Darwin
	are structures of the insect head that are responsible for
•	ng solid food.
A.	maxilla
B.	mandibles
C.	calyx
D.	labrum