Tarleton State University 2022 Invitational CDE Entomology Exam KEY

1.	The eastern population of monarch	7.	A mass of neutral tissue that contains mostly
	butterflies overwinter in		nerve cell bodies and interneurons in an
	A. Texas		insect is called a
	B. Florida		A. Nerve
	C. Central Mexico		B. Motor neuron
	D. Baja California		C. Synapse
	·		D. Ganglion
2.	secrete a bubbly liquid-covering on		
	plants to conceal themselves or their eggs.	8.	is found as both a supporting element in
	A. Spittle bugs		fungal cell walls and a key component of
	B. Wax moths		arthropod exoskeletons.
	C. Aphids		A. Chitin
	D. Scale insects		B. Collophore
			C. Epicuticle
3.	A is the immature, aquatic stage of a		D. Epidermis
	dobsonfly.		1
	A. Hellgrammite	9.	The absolute minimum information that
	B. Grub		must be associated with insect specimens
	C. Hellbender		after collection include
	D. Ant lion		A. Trap type and collector
			B. Location and date
4.	What percentage of flowering plants on		C. Date and collector
	Earth require insect pollination?		D. Location and trap type
	A. 30%		
	B. 75%	10	. Approximately how many species of insects
	C. 95%	10	have been described to date?
	D. 50%		A. 1 million
	2. 50%		B. 5 million
5	In what order of insects are the front wings		C. 12 million
٠.	known as "elytra?"		D. 500 thousand
	A. Orthoptera		D. 300 mousuit
	B. Hymenoptera	11	. If an insect is described as zoophilic, that
	C. Hemiptera		insect prefers to
	D. Coleoptera		A. Humans; animals
	D. Colcopteru		B. Animals; plants
6.	The plague, or "black death," is a disease of		C. Animals; humans
٥.	rodents and is transmitted by the		D. Plants; animals
	A. Human body louse		D. Tants, annuals
	B. Asian lady beetle	12	. The Hymenoptera from the list below that
	C. Oriental rat flea	12	are not social are
	D. Western tarnished plant bug		A. Hornets
	D. Western tarmsned plant oug		B. Leafcutter bees
			C. Honey bees
			D. Sweat bees
			D. Sweat dees

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13. As juvenile hormone levels fall in the	19. After its second molt an insect is a
hemolymph, what reaction is triggered in	instar.
insects?	A. First
A. The corpora allata start to release more	B. Second
23-hydroxy ecdysone	C. Third
B. Immature forms start to change towards	D. Final
<mark>adulthood</mark>	
C. Immatures remain immature	20. Malaria was eradicated in the U.S. in the
D. None of the above	mid-20 th century in part because of the
	widespread use of
14. Which structure is not part of an insect's	A. Sevin
tracheal system?	B. DDT
A. Tracheole	C. Malathion
B. Spiracle	D. Deet
C. Taenidia	
D. Sinus	21. The blood of insects is called
	A. Hemolymph
15 is a family in the order	B. Hemocyanin
A. Tortricidae, Hemiptera	C. Hemoglobin
B. Chrysomelidae, Coleoptera	D. Sebum
C. Coleoptera, Chrysomelidae	
D. Chrysomelidae, Collembola	22. What is the mouthpart called for feeding
	within the Lepidoptera?
16. A caterpillar of the cabbage butterfly is a	A. Pronotum
common pest of	B. Paranota
A. Vegetables	C. Pylorus
B. Shrubs	D. Proboscis
C. Turfgrass	D. 110003013
D. Flowers	23. A geniculate insect antenna is
2. 110 Wels	A. Serrated
17. Digging legs of mole crickets are what	B. Hairy
functional type?	C. Clubbed
A. Cursorial	D. Elbowed
B. Raptorial	D. Hoowed
C. Fossorial	24. Predaceous diving beetles belong to what
D. Saltatorial	insect order?
D. Sattatoriai	A. Dermaptera
18. Which structure is not part of an insect's	B. Coleoptera
antenna?	C. Diptera
A. Pedicel	D. Siphonaptera
B. Scape	D. Sipholiapicia
-	
C. Flagellum <mark>D. Coxa</mark>	
D. Coxa	

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 25. The old shed skin left behind after an insect molts is known as the A. Sclerite B. Stadium C. Excuvium D. Ecdysis
 26. The civilization regarding dung beetles as sacred. A. Egyptian B. Roman C. Syrian D. Aztec
 27. To what family do hard ticks belong to? A. Ixodidae B. Simuliidae C. Heptageniidae D. Argasidae
 28. Which of the following is the common name of the order Mecoptera? A. Firefly B. Dragonfly C. Scorpionfly D. Caddisfly
 29. What function do protein cross-linkages have in the insect exoskeleton? A. They lighten the color of the exoskeleton B. They make it impermeable to water C. They make membranes more flexible D. They make sclerites more rigid
 30. Which of these is not a longitudinal wing vein? A. Cubitus B. Furca C. Radius D. Costa