Tarleton State University 2022 Invitational CDE Entomology Exam

1.	The eastern population of monarch butterflies overwinter in A. Texas B. Florida		
	C. Central Mexico	B. Colle	
	D. Baja California	C. Epic	•
	D. Daja Camornia	D. Epide	
2.	secrete a bubbly liquid-covering on plants to	<i>D.</i> 2p.u.	
	conceal themselves or their eggs.	9. The absol	ute minimum information that must be
	A. Spittle bugs	associated	d with insect specimens after collection
	B. Wax moths	include _	
	C. Aphids		type and collector
	D. Scale insects	B. Loca	tion and date
		C. Date	and collector
3.	A is the immature, aquatic stage of a dobsonfly.	D. Loca	tion and trap type
	A. Hellgrammite		
	B. Grub	10. Approxin	nately how many species of insects have
	C. Hellbender	been desc	ribed to date?
	D. Ant lion	A. 1 mil	llion
		B. 5 mil	llion
4.	What percentage of flowering plants on Earth require	C. 12 m	illion
	insect pollination?	D. 500 t	housand
	A. 30%		
	B. 75%	11. If an inse	ct is described as zoophilic, that insect
	C. 95%	prefers _	to
	D. 50%		ans; animals
		B. Anin	nals; plants
5.	In what order of insects are the front wings known as	C. Anin	nals; humans
	"elytra?"	D. Plant	s; animals
	A. Orthoptera		
	B. Hymenoptera	12. The Hym	enoptera from the list below that are not
	C. Hemiptera	social are	·
	D. Coleoptera	A. Horn	ets
		B. Leaf	cutter bees
6.	The plague, or "black death," is a disease of rodents	C. Hone	ey bees
	and is transmitted by the	D. Swea	at bees
	A. Human body louse		
	B. Asian lady beetle		
	C. Oriental rat flea	13. As juveni	ile hormone levels fall in the hemolymph,
	D. Western tarnished plant bug	what reac	tion is triggered in insects?
		A. The	corpora allata start to release more 23-
7.	A mass of neutral tissue that contains mostly nerve	hydr	oxy ecdysone
	cell bodies and interneurons in an insect is called a		ature forms start to change towards hood
	A. Nerve	C. Imm	atures remain immature
	B. Motor neuron	D. None	e of the above
	C. Synapse		
	D. Ganglion	14. Which str	ructure is not part of an insect's tracheal
	-	system?	-
		A. Trac	heole
		B. Spira	acle
		C. Taen	
		D. Sinus	S

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15.		23. A geniculate insect antenna is
	A. Tortricidae, Hemiptera	A. Serrated
	B. Chrysomelidae, Coleoptera	B. Hairy
	C. Coleoptera, Chrysomelidae	C. Clubbed
	D. Chrysomelidae, Collembola	D. Elbowed
16.	A caterpillar of the cabbage butterfly is a common	24. Predaceous diving beetles belong to what insect
	pest of	order?
	A. Vegetables	A. Dermaptera
	B. Shrubs	B. Coleoptera
	C. Turfgrass	C. Diptera
	D. Flowers	D. Siphonaptera
17.	Digging legs of mole crickets are what functional type?	25. The old shed skin left behind after an insect molts i known as the
	A. Cursorial	A. Sclerite
	B. Raptorial	B. Stadium
	C. Fossorial	C. Excuvium
	D. Saltatorial	D. Ecdysis
10	Wall of the second of the seco	
18.	Which structure is not part of an insect's antenna?	26. The civilization regarding dung beetles as
	A. Pedicel	sacred.
	B. Scape	A. Egyptian
	C. Flagellum	B. Roman
	D. Coxa	C. Syrian
10	A One to account on the action of the	D. Aztec
19.	After its second molt an insect is a instar.	05 5 1 1 1 1 1 1 1 1 1 1 1 1
	A. First	27. To what family do hard ticks belong to?
	B. Second	A. Ixodidae
	C. Third	B. Simuliidae
	D. Final	C. Heptageniidae
	NATE OF THE PROPERTY OF THE PR	D. Argasidae
20.	Malaria was eradicated in the U.S. in the mid-20th	00 1771 1 01 011 1 1 1
	century in part because of the widespread use of	28. Which of the following is the common name of the
	'	order Mecoptera?
	A. Sevin	A. Firefly
	B. DDT	B. Dragonfly
	C. Malathion	C. Scorpionfly
	D. Deet	D. Caddisfly
21.	The blood of insects is called	29. What function do protein cross-linkages have in the
	A. Hemolymph	insect exoskeleton?
	B. Hemocyanin	A. They lighten the color of the exoskeleton
	C. Hemoglobin	B. They make it impermeable to water
	D. Sebum	C. They make membranes more flexible
		D. They make sclerites more rigid
22.	What is the mouthpart called for feeding within the	
	Lepidoptera?	30. Which of these is not a longitudinal wing vein?
	A. Pronotum	A. Cubitus
	B. Paranota	B. Furca
	C. Pylorus	C. Radius
	D. Proboscis	D. Costa