ALBI-345 - Exam 2

Ocober 27, 2021

Name:		
1. State two ways in which pheromones are being used in modern pest control. (2 points)		
2. What is the difference between pheromones and kairomones? (1 point)		
3. There are many species of flies that mimic bees and wasps. What type of mimicry is this and how does it benefit the flies? (2 points)		
4. Insect camouflage may not work unless an insect behaves appropriately. Explain. (1 point)		

Ę	. Most insect species are referred to as having an "r-selected reproductive strategy" What does this mean? (1 point)
(. The parameter K in the logistic model, also known as the carrying capacity (pick 1 of the following; 1 point):
	• is the maximum number of individuals that can be sustained by available resources
	 is the total amount of food and other resources available to the population is maximum population growth rate
	• all of the above
7	. What two criteria must be present for an organism to be considered an "invasive species"? (2 points)
8	. Tropical islands are much more susceptible to damage from invasive species than are continents? Give two reasons for this difference in risk. (2 points)
(C	. About half of invasive insect species arriving on Guam in recent years belong to one order. What is the name of this order and why is this order such a big problem for Guam's biosecurity? (2points)

]	10.	Give the scientific names for 3 important invasive insect species on Guam and briefly describe the damage they are causing. (6 points)
1	11.	Sometimes, after a farmer applies a broad-spectrum insecticide, there is a pest population explosion referred to as "pest resurgence"? Explain what might be happening here. (2 points)
]	12.	Give a brief definition of integrated pest management (IPM). (2 points)
]	13.	Which of the following are valid IPM tactics? (make 1 choice; 1 point) • pesticide application • release of biological control agents • sanitation • crop rotation • all of the above
]	14.	Insect herbivores are sometimes used as biological control agents in weed management programs. Briefly discuss the risks involved and how these risks can be minimized. (2 points)

Classify each insect specimen to Order. (1 point awarded for each correctly identified)
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