

### Insects and Rodents Practice Exam Questions

1. In any particular pest management situation, a pesticide product can be legally applied only if that specific application is not prohibited by which of the following:
  - A. The *Illinois Structural Pest Code and Act*
  - B. The product's label
  - C. Good Manufacturing Practices
  - D. A UDSA inspector in charge
  - E. All of the above
  
2. Which of the following diseases is rarely, if ever, associated with rodents?
  - A. Rabies
  - B. Lymphocytic choriomeningitis
  - C. Leptospirosis
  - D. Rat-bite fever
  - E. Bubonic plague
  
3. Male cockroaches with wings covering most of their abdomens and adult females with short wing pads are \_\_\_\_\_ cockroaches.
  - A. Brown banded
  - B. Wood
  - C. American
  - D. Oriental
  - E. German
  
4. In Illinois to apply pesticides to control mosquitoes outdoors, a license is needed from the:
  - A. Illinois Department of Mosquito and Vector Control
  - B. Illinois Environmental Protection Agency
  - C. Illinois Department of Public Health
  - D. Illinois Department of Agriculture
  - E. Illinois Mosquito Management Agency
  
5. A customer complains that tiny moths are flying around the house during the day. Your inspection finds holes in some popcorn kernels. Considering this, which pest is LEAST LIKELY to be present?
  - A. Red flour beetles
  - B. Confused flour beetle
  - C. Granary weevil
  - D. Angoumois grain moth
  - E. None of the above

6. Which of these is transmitted to humans by bed bugs?
- A. Scabies
  - B. Psittacosis
  - C. Plague
  - D. Chagas disease
  - E. None of the above
7. The best feature to identify a brown recluse spider is its...
- A. Sac-like, tubular web
  - B. Striped cephalothorax
  - C. Uniform brown color
  - D. 2 large eyes and 6 smaller eyes
  - E. None of the above.
8. By law, the \_\_\_\_\_ is responsible for notifying persons who registered to be notified of pesticide application in a public school or day care center.
- A. Designated IPM coordinator
  - B. School or day care center
  - C. Applicator
  - D. Licensed pest control company
9. Each month during the summer, a pest management professional applies a residual pesticide to the exterior surface of a **public school's** foundation when the school is not in session. What statement is **TRUE**?
- A. The applicator must be certified by the Illinois Department of Agriculture.
  - B. This type of regular, preventative treatment is an important part of IPM.
  - C. Parent notification is not necessary before each application is made.
  - D. None of the above.

10. Use the label information below to answer this question: **How much concentrate is needed** with water to fill a **2-gallon pump sprayer** if you intend to apply the mix at the **highest rate** to control insects indoors?
- A. 20.7 ml
  - B. 14.8 ml
  - C. 29.6 ml
  - D. 41.4 ml
  - E. None of the above

The label states: For pest control in buildings, use a 0.03% to 0.05% A.I. suspension. 1 fluid ounce(oz) = 27.53 milliliters (ml)

Percent Active Ingredient	Application volume Gal/1,000 sq.ft.	Application rate Oz of concentrate/1,000 sq.ft.
0.01	1.0	0.16
0.02	1.0	0.33
0.03	1.0	0.5
0.04	1.0	0.63
0.05	1.0	0.75

11. Which statement about **odorous house ants** is **FALSE**?
- A. Their nests are often underneath objects outdoors and in voids indoors.
  - B. They are reddish yellow and only about 1/5-inch long.
  - C. They live in and outside structures, often moving indoors later in the year.
  - D. They feed on waste known as honeydew which other insects excrete.
12. A customer shows you some small, dark brown beetles. Their heads are not visible from above, and they have many tiny grooves running down their wing covers; you identify them as...
- A. Drug store beetles
  - B. Lesser grain beetles
  - C. Red flour beetles
  - D. Lesser grain borers
  - E. None of the above
13. Regarding **brown recluse spiders**, which statement is **FALSE**?
- A. In Illinois, they typically spread by crawling from house to house.
  - B. Most brown recluse bites are distinctive and easily recognizable by physicians.
  - C. Placing one sticky trap per room is sufficient for monitoring infestations.
  - D. Residents are often bitten repeatedly in heavily infested households.
  - E. All of the above

14. The control method that can eliminate ALL species of household infesting ants without using another control is...
- Using the bait product that is most attractive to the species.
  - Ensuring absolutely NO food product is available to them indoors.
  - Spraying ant trails indoors and around the foundation outdoors.
  - None of the above.
15. In commercial facilities, the main reason to keep stored goods 18-inches away from the wall is because the space...
- Provides a runway for rodents and helps prevent product contamination.
  - Discourages rats from climbing walls to access the stored goods.
  - Makes inspection, trap placement, and trap servicing easier.
  - None of the above.

**Answers**

**1-E; 2- A; 3-D; 4-D; 5-B; 6-E; 7-E; 8-B; 9-D; 10-D; 11-B; 12-A; 13-E; 14-D; 15-C**

Explanation of (#10) label calculation

Per the table, the highest rate of concentrate mixture is 0.75oz per 1.0 gallon

Label states: 27.53ml equals 1oz

There is 0.75oz of concentrate in 1 gallon

$$\frac{0.75\text{oz}}{1\text{gal}} \times \frac{27.53\text{ml}}{1\text{oz}} = \frac{20.7\text{ml}}{1\text{gal}}$$

Therefore, 0.75oz x 27.53ml = 20.7 approximate ml of concentrate needed for a gallon

For 2 gallons 20.7 + 20.7 = 41.4ml

Answer is D