

Toxicology 2: Human Health and Pesticides Definition / Terminology / Fact Check

1. For the transmissible diseases listed below, put a check mark in all places that apply.

disease	bacterial	viral	method(s) of contraction
plague			direct/indirect human contact ____ insect vectors (bug bites) ____ infected water ____
cholera			direct/indirect human contact ____ insect vectors (bug bites) ____ infected water ____
zika			direct/indirect human contact ____ insect vectors (bug bites) ____ infected water ____
malaria			direct/indirect human contact ____ insect vectors (bug bites) ____ infected water ____
dysentery			direct/indirect human contact ____ insect vectors (bug bites) ____ infected water ____

2. Which law regulates the manufacturing, distribution, and use of pesticides? _____

3. Pressure treated wood have the letters CCA stamped on it. What 3 metals do the letters "CCA" stand for?

4. What is meant by the term "monoculture"?

5. What are the two main problems caused by monoculture?

6. When did the Green Revolutions occur? What were their purpose?

7. Name 3 examples of GMO food sources. _____

8. Which law requires clear product labeling of food items? _____

Alternative Pest Control Methods

Label each method as an agricultural technique, biological, physical, or natural chemical method

9. bat boxes to control mosquitoes _____
10. Aqua Heat in orange groves _____
11. companion planting of mums and marigolds _____
12. planting of trap crops _____
13. releasing ladybugs into the garden _____
14. use non-toxic traps and bug-zappers _____

Classification of Pesticides

Label each as inorganic, organic/botanical, synthetic

15. DDT _____
16. pyrethrum _____
17. Lindane _____
18. copper _____
19. silicates _____

Human Health

Name the non-transmissible health condition associated with the information provided

20. inability to process glucose _____
21. emaciation due to overall lack of nutrition _____
22. plaque formation in arteries _____
23. lack of healthy red blood cells _____
24. severe protein malnutrition _____
25. Know the practices of traditional subsistence agriculture
- polyculture -
- Intercropping / interplanting –
- agroforestry -

26. What is integrated pest management (IPM)?
27. How do systemic pesticides work?
28. What are the steps toward genetic resistance in pests as a result of the “pesticide treadmill”
29. Even though banned in the U.S., why is DDT (and other synthetic chemicals) still such a problem to the environment?
30. What do the letters POP stand for? _____
31. a. Which metals have been phased out as pesticides?
b. Which one is being phased out?
c. What inorganic substances are replacing these metals as insecticides?
32. Why are pyrethrum and nicotine safer alternatives to pest control?
33. What is the difference between narrow and broad spectrum pesticides?
34. What is the difference between selective breeding and genetic engineering?
35. Name one positive and one negative aspect of food irradiation?
36. Know all of the laws/initiatives: FD &C, Delaney Clause, FIFRA, FQPA, Stockholm Convention
37. Botany of Desire Video Study Guide Questions page 99 - (apples, potatoes, tulips) – all are game