Agriculture Science IPM Take Home Test Name_____

Answer each of the following questions in complete sentences. Please use neat handwriting.

1. What benefit does a mechanical control have over a chemical control?

2. When is it more beneficial to use chemical controls over other IPM controls?

3. Why would a person use a selective herbicide instead of a non-selective herbicide?

4. When would it be more appropriate to use an insecticide that has a stomach poison instead of a contact poison?

5. Why is allelopathy beneficial to study for IPM?

6. When dealing with pesticide, what precautions should be taken to ensure safety during application?

7. When looking for biological controls, why is it important to first consider native species?

8. When comparing the toxicity of two chemicals, what are two things that signal lower toxicity?

9. Why is it important to continually scout fields for key pests?

10. What public opinions and attitudes have lead to an increased emphasis on IPM?

11. Explain how a farmer might be chronically exposed to a pesticide.

12. Why did my grandmother insist on planting marigolds around our garden each year?

13. What benefits does IPM have for the farmer as a businessman?

14. If I burned down a field with herbicide, then planted corn, what type of pesticide application did I use?

15. I sprayed malathion on my beans to control crab grass. It rained shortly after I applied the pesticide, but I am sure it had time to dry on the leaf before the rain. Why did my pesticide fail?

16. Giant Ragweed is considered a noxious weed, why?

17. I am looking at this weed in my garden, and I don't know what it is. How do I go about finding out what to treat it with?

18. How is economic threshold different from economic injury level?

19. I am growing prize roses. I know that aphids carry the disease black leaf spot. I also know that my roses can catch this disease. I have not found any aphids on my roses yet, but I have found them on my petunias around the corner. In this scenario, what is the causal agent, what how could we control it?

20. I have a weed that I sprayed last fall and thought I killed; however, it has come back this year. How is this possible?