



SCIENCE OLYMPIAD
AT THE
UNIVERSITY OF FLORIDA

Northern Regional: January 19th, 2019

Potions and Poisons B Answer Key

Name(s): _____

Team Name: _____

School Name: _____

Team Number: _____

Rank: _____

Score: _____

Potions and Poisons Answer Keys

1. A
2. C
3. B
4. C
5. D
6. D
7. B
8. A
9. C
10. D
11. Poison ivy
12. Cottonmouth Snake
13. Black Widow
14. Autumn Skullcap
15. Henbane
16. a = 3; b = 1; c = 2
17. a = 6; b = 1; c = 3
18. a = 4; b = 7; c = 2; d = 4
19. Chemical
20. Physical
21. Chemical
22. Physical
23. Wind
24. Cancer in the lung, bladder, and kidney; change in skin pigmentation; vomiting; disturbance in the blood circulation; damage to the nervous system, death, Blackfoot disease,...
25. Definition: Copper toxicity is the metal poisoning caused by an excess of copper in the body
Symptoms
 - a. Vomiting
 - b. Vomiting blood
 - c. Hypotension
 - d. Melena
 - e. Coma
 - f. Jaundice
 - g. Gastrointestinal distress
 - h. Liver and kidney damageTreatment
 - i. Penicillamine
 - j. Dimercaprol
 - k. Alpha-lipoic acid (ALA)
 - l. Vinegar is not acceptable**
26. Increasing up and to the right
27. $(20)(15.5) = x(3) \Rightarrow x = 103.3 \text{ mL}$

28. When the solute and solvent react with each other chemically, it is considered a solution.
When the solute and solvent does not react with each other, it is considered a mixture
29. Ionic bond dissociate complete when come into contact with solutions. Covalent bond partially dissociate.
30. LD50 is a measure of the lethal dose of toxin, radiation, or pathogen
31. The pennies are dirty, has dark color.
32. The penny becomes shinier, all the dark spots are removed.
33. The reactive is the chemical change because of the bubbling during the reaction.
34. The light bulb does not light up.
35. The light bulb lights up.
36. Water is not a good conductor because pure water does not have charge molecule.
37. Salt ionizes water, allow electricity to run through.