

Answer each of the following from the handout:

1. A bee's sting is _____.
2. A wasp's sting is _____.
3. Which chemical would be best to treat an unknown sting - Na_2CO_3 , CH_3COOH , or NaHCO_3 ?
4. What acid is responsible for muscle fatigue?
5. Which flower is blue in acidic soil but pink in basic soil?
6. Blackberry extract is _____ in acid.
7. Blackberry extract is _____ in base.
8. What acids are in Pepsi and Coke?
9. Heartburn is caused by excess _____ in the digestive system.
10. What acid is in Aspirin?
11. Which oxides are responsible for acid deposition (acid rain)?
12. A solution containing a weak acid and its conjugate base.
13. A solution that maintains relatively constant pH when a small amount of acid or base is added.
14. What is the normal pH of blood?
15. The buffer in blood forms when _____ reacts with water to produce carbonic acid.
16. Carbonic acid reacts with water to produce the _____ ion, its conjugate base.
17. When excess acid enters the blood stream it reacts with _____.
18. When excess base enters the blood stream it reacts with _____.
19. The condition of blood pH rising to dangerously high levels is called _____.
20. The condition of blood pH rising to dangerously low levels is called _____.
21. Breathing out more often removes CO_2 and can cause _____.
22. A sudden influx of acid during physical exertion can cause _____.

16. Why could NaHCO_3 be used to treat both bee stings and wasp stings?
