Name: _____

Date: _____ Grade: _____

SECTION QUIZ 7-2



Remember:
Score an average of 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.5 points.

Fill in the blank or circle True or False.

1. The paddlewheel of the Crooke's radiometer began to spin when the vanes were struck by: _____.
   (a) beta particles (c) heated air molecules
   (b) X-rays (d) wind currents
2. Cathode rays come from the _____ terminal of a battery.
3. A _____ ray tube is found in displays such as heart monitors, televisions, oscilloscopes and computer screens.
4. Cathode rays are streams of _____.
5. Because cathode rays struck a wheel and caused it to roll along a track, J. J. Thomson concluded that cathode rays were: _____.
   (a) particles (b) exact (c) waves (d) molecules
6. Because cathode rays were repelled by a plate with a negative charge, J. J. Thomson concluded that cathode rays had a _____ charge.
   (a) positive (b) negative (c) indeterminate (d) neutral
7. Probing inside an atom requires especially large particles.
   (a) True or (b) False
8. Rutherford used gold as the target for his alpha particles because gold can be hammered into very thin sheets.
   (a) True or (b) False
9. Alpha particles would cut deeply into a sample of gold foil because they have: _____.
   (a) a high speed and mass (c) sharp points
   (b) no electric charge (d) direction
10. Most alpha particles went through the gold foil as if it were mostly _____ space.
11. Most of the mass and all of the positive charge of an atom are concentrated in the: _____.
    (a) electron (b) neutron (c) nucleus (d) proton

12. The planetary model of the atom portrays the nucleus as the Sun and the electrons as: _____.
    (a) distant stars (b) icebergs (c) planets (d) Sun spots

13. Protons and _____ are found in the nucleus of an atom.

14. Teflon contains fluorine. (a) True or (b) False

15. Teflon is slippery, resists electrical currents and is chemically: _____.
    (a) highly active (b) inert (c) valenced (d) volatile

16. As a rule, the more active an element is the less active are its _____.

17. Fluorine reacts with metals to form _____ bonds.

18. Freon and Teflon are examples of: _____.
    (a) fluorocarbons (c) hydrocarbons
    (b) good housekeeping (d) bicarbons

19. Because Teflon is made of a long chain of repeated, identical units, it is known as a _____.

20. Fluorescent minerals glow when struck by _____ light.

21. The acid used to etch glass is _____ acid.
    (a) hydrochloric (b) hydrofluoric (c) nitric (d) citric

22. Factories obtain chlorine in all of the ways EXCEPT: _____ _____.
    (a) by electrolysis
    (b) extracting it from the atmosphere
    (c) transporting it as a pressurized liquid in railroad cars
    (d) combining it with another element to make a nontoxic compound

23. The symbol for bromine is _____.

24. The chief use of bromine is in: _____.
    (a) making acids (c) preventing tooth decay
    (b) drinking water (d) light-sensitive photographic film

25. The chemical symbol for iodine is _____.

26. _____ is dissolved in alcohol to make an antiseptic and disinfectant.
    (a) Chlorine (b) Iodine (c) Astatine (d) Fluorine

27. The thyroid gland enlarges if a person does not have enough chlorine in the diet.
    (a) True or (b) False

28. The chemical symbol for astatine is _____.

29. The elements fluorine, chlorine, bromine, iodine and astatine are known as halogens because they form: _____.
    (a) halos (b) acids (c) bases (d) salts

30. *HCl* is the formula for hydrochloric acid and hydrogen _____.

Matching:

31. _____ fluorine
32. _____ chlorine
33. _____ bromine
34. _____ iodine
35. _____ astatine

(a) is radioactive
(b) mixed with alcohol to make an antiseptic
(c) most reactive element known
(d) used as a poison gas during World War I
(e) used in photographic film

36. *"All my life through, the new sights of nature made me rejoice like a _____."*
37. *"It is what you _____ after you think you know it all that counts."*
38. *"A person's _____ is like gelatin; try to fill it with good stuff before it sets."*
39. *"In questions of science, the authority of a thousand is not worth that humble _____ of a single individual."*
40. *"In the arena of human life, the honors and rewards fall to those who show their _____ in action."*