Name: _____

Date: _____ Grade: _____

SECTION QUIZ 8-1



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. Sugar and egg whites are: _____.
   (a) semiorganic (b) inorganic (c) metals (d) organic

2. Organic and inorganic compounds are very different in their chemical and physical properties.
   (a) True or (b) False

3. Analysis of organic compounds shows that they contained hydrogen, oxygen, nitrogen and: _____.
   (a) chlorine (b) silver (c) gold (d) carbon

4. _____ is the separation of a compound into its elements.

5. _____ is the formation of a compound by simpler compounds or elements.

6. Organic compounds _____ the same chemical laws as inorganic compounds.

7. According to the modern definition, an organic compound is one that: _____.
   (a) contains carbon (c) is made by the organs of living things
   (b) contains organisms (d) contains chemicals

8. _____ is the essential element in all organic compounds.

9. The element that forms the greatest number of different compounds is: _____.
   (a) carbon (b) hydrogen (c) oxygen (d) nitrogen

10. A compound that contains only carbon and hydrogen is a(n): _____.
    (a) catalyst (b) carbon hydride (c) hydrocarbon (d) alcohol

11. The simplest hydrocarbon is: _____.
    (a) ethylene (b) formaldehyde (c) butane (d) methane

12. Methane, ethane and propane are examples of: _____.
    (a) phenols (c) organic acids
    (b) hydrocarbon chains (d) isomers

13. _____ with the same chemical formula can have different chemical and physical properties.

14. To convert unburned hydrocarbons into less harmful compounds, an automobile is equipped with a(n): _____.
    (a) torque converter (c) catalytic converter
    (b) antiknock preventative (d) polyethylene converter

15. Hydrocarbons are compounds made entirely of hydrogen and: _____.
    (a) carbon (b) organics (c) nitrogen (d) oxygen

16. Gasoline and water do not mix. (a) True or (b) False

17. Methane, ethane and butane are members of the _____ series.
    (a) alkane (b) alkene (c) alkyne (d) petrol

18. In a saturated hydrocarbon, all of the carbon bonds are doubled.
    (a) True or (b) False

19. The number of shared electrons in a double bond such as C = C is: _____.
    (a) 1 (b) 2 (c) 8 (d) 4

20. An alkane hydrocarbon with 24 carbon atoms has _____ hydrogen atoms.

21. The prefix that describes several identical molecules connected together is: _____.
    (a) mono (b) poly (c) bi (d) tri

22. The one that is more reactive, especially when burned with oxygen, is: _____.
    (a) hydrogen (b) ethane (c) ethylene (d) acetylene

23. Motor fuel, heating oil and coal all contain: _____.
    (a) carbon (b) nitrogen (c) chlorine (d) oxygen

24. An organic compound always contains: _____.
    (a) carbon (b) hydrogen (c) oregano (d) oxygen

25. The word petroleum means: _____.
    (a) brown gold (b) rock oil (c) coal oil (d) shale

26. Methane and propane are both: _____.
    (a) gases (b) liquids (c) solids (d) semi-liquids

27. The hydrocarbons that are liquids are: _____.
    (a) natural gases (c) methane and propane
    (b) gasoline and kerosene (d) paraffin and pitch

28. The one with the longest, heaviest molecule is: _____.
    (a) asphalt (b) fuel oil (c) gasoline (d) natural gas

29. The formula for benzene is: _____.
    (a) C_6H_6 (b) H_2NO_3 (c) C_2H_2 (d) H_2SO_4

30. Normally, a compound with double or triple bonds is chemically: _____.
    (a) unstable (b) active (c) inert (d) stable

31. The benzene molecule has the shape of a(n): _____.
    (a) isomer with numerous side chains (c) ring
    (b) long chain (d) rectangle

32. Organic compounds with a ring structure make up a very small proportion of all organic compounds. (a) True or (b) False

33. A _____ compound is made in the laboratory.

34. During World War II, Germany used synthetic fuel because it was cheaper.
    (a) True or (b) False

35. _____ _____ _____ started an entire industry based on a synthetic product.

36. Isaac Newton said, *"This most beautiful system [the Solar System] could only proceed from the dominion of an _____ and powerful Being."*

37. *"_____ is more important than knowledge. Knowledge is limited._____ encircles the world."*

38. *"Our doubts are _____ and make us lose the good we oft' might win by fearing to attempt."*

39. *"You will never possess what you are unwilling to _____."*

40. *"Little minds are tamed and subdued by _____, but great minds rise above them."*