

## **Carbon Chemistry Test Practice; Class Set do not write on**

ANSWER the following on a separate sheet of paper.

1. How many valence electrons does carbon have?
2. How many single bonds can it form?
3. How many double bonds?
4. What are the forms of carbon (three shapes)?
5. To what other elements does carbon bond?
6. What is an organic compound?
7. What are the other 5 elements besides carbon that make up the tissue of living creatures?
8. What is the chemical formula of a carbohydrate? What does it look like and what does it do?
9. What is a complex carbohydrate?
10. What is cellulose and what creatures is it found in?
11. What is a macromolecule?
12. What is a hydrocarbon?
13. What is a saturated hydrocarbon? An unsaturated hydrocarbon? What do they do and look like?
14. What is a polymer? What is a monomer? Isomer? What does each look like?
15. What is an ester and what does it look like?
16. What other important biological macromolecules is carbon found in?
17. What do scientists use carbon for today?
18. What is a nanotube? How is it made and what is it used for?
19. What is a fullerene and what is it used for?
20. What are graphite and diamond used for?