



# SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107

## AN AUTONOMOUS INSTITUTION



Accredited by NBA - AICTE and Accredited by NAAC - UGC with 'A' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

### New Engineering Materials

#### Topic : Nanomaterial

##### 1. Fill in the blanks.

1. Which ratio decides the efficiency of nanosubstances .....
2. The surface area to volume ratio of a sphere with radius 1 cm is  $R_1$  and that of a sphere with radius 5 cm is  $R_2$ . Then  $R_1 = \underline{\hspace{2cm}}$   $R_2$ .
3. The surface area to volume ratio of a cube with side 1 unit is  $R_1$  and that of a cube with side 10 units is  $R_2$ . Then  $R_2 = \underline{\hspace{2cm}}$   $R_1$ .
4. The two important properties of nanosubstances are.....
5. With the help of \_\_\_\_\_, Robert F. Curl and others discovered fullerene.
6. In the structure of fullerene each carbon atom forms covalent bonds with \_\_\_\_\_ other carbon atoms.
7. Who had invented the famous 'Geodesic' dome structure .....
8. The largest cluster of carbon atoms in Bucky balls known till today consists of \_\_\_\_\_ carbon atoms.
9. The smallest cluster of carbon atoms in Bucky balls known till today consists of \_\_\_\_\_ carbon atoms.
10. The tensile strength of an MWNT is \_\_\_\_\_ Pa.