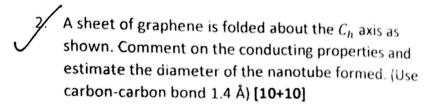
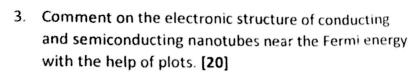
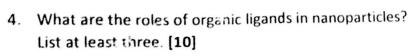
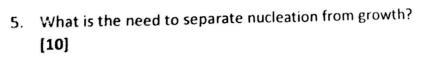
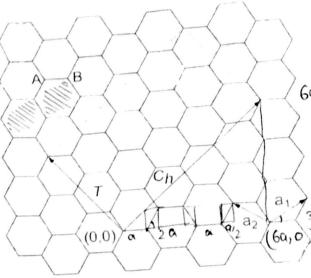
1. What are the preferred methods for synthesis of SiO<sub>2</sub>, CdSe, GaAs, Au and Fe<sub>2</sub>O<sub>3</sub> nanoparticles? Give one sentence justification. [20]





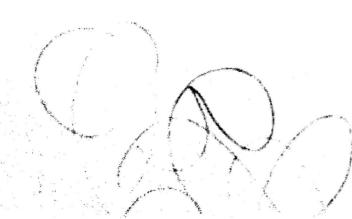






$$cocco = \frac{1}{2} =$$

- 6. Why can we not observe ferromagnetism in 10 nm nanoparticles? [10]
- We have not discussed as to what happens to the melting point of a metal as the size of the particles is decreased. Comment on this with a brief ( < half page) argument. [10]</li>



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