

Physics Assignment to be submitted

Module 5

1. Write any two allotropes of carbon.
2. Explain the role of nanotechnology in modern lifestyle.
3. “Graphene is an important allotrope of carbon.” Explain.
4. Discuss briefly any two scientific applications of Nanotechnology.
5. Discuss any four differences between SEM and TEM.
6. Explain term nanomaterials. Discuss their classification and applications.
7. Using the concept of density of states in different dimensions, explain the terms Quantum Well, Quantum wire, and Quantum dots with their properties.
8. Using the concept of density of states in different dimensions explain 0D, 1D, 2D and 3D nanomaterials with their proper examples.
9. Describe the various properties and applications of Graphene in detail.
10. Explain in detail the structure, properties and applications of Carbon Nanotubes.