

## Assignment 1/ Module I/ Classification of Materials

1. What is steel? Classify plain carbon steel.
2. Define Alloy.
3. Differentiate alloy and composite.
4. Define allotropy of iron.
5. How do cast irons differ from steels?
6. What are the four major alloying elements that form carbides in tool steel?
7. What are the different types of tool steels used for dies?
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9. What are the properties of aluminium alloy?
10. What are the different types of crystal structures?
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12. What is the atomic packing factor?
13. What are crystal defects?
14. How does a scanning electron microscope work?
15. What are the advantages, disadvantages and applications of SEM?