

Industrial Metallurgy and Biocatalysis

1. Discuss the method of refining an alkali metal by electrolysis.
2. Using the suitable example, explain the refining of metals by Mond's process.
3. In the case of Blast furnace, show how carbon reduces iron oxide at all temperatures.
4. Carbon is a good reducing agent for reducing iron ore at all temperatures. Discuss.
5. How are semiconductors are refined by Van Arkel de Boer's filament growth method?
6. Biocatalyst are a boon of green chemistry. Elaborate.
7. What is the significance of Biocatalyst in green chemistry?
8. Define biocatalyst and explain its importance in chemical industry with suitable example.
9. Define atom economy. What is the significance of atom economy?
10. How can green chemistry be useful at different stages of life cycle of a product?
11. List 12 principles of green chemistry. Explain any three with examples.