

## SPONGE IRON AND FERRO ALLOYS

1. What are the raw materials used for sponge iron making?
2. What is the qualitative composition of Hematite ore?
3. What is sponge iron?
4. What are the purposes of using coal in DRI kiln?
5. Why DRI is called Sponge iron?
6. What are the uses of Sponge iron?
7. Name the first commercial DRI plant in India with its technology?
8. What are the differences between Sponge & Pig iron?
9. What is the full form of ACCAR process?
10. What is the average ore size for DRI making in rotary kiln?
11. What do you mean by reoxidation?
12. What is the maximum % of sulphur desirable in DRI?
13. What is the bulk density of iron ore?
14. What are the full forms of SL/RN and CODIR process?
15. What is metallization?
16. Name two coal based process.
17. Classify thermodynamic system.
18. What is system?
19. What is 2<sup>nd</sup> law of thermodynamics?
20. Higher the operating temperature ..... is the rate of reduction in coal based DRI plants.
21. What is the particle size range for reducibility of iron ore in DR process?
22. Why limestone is not used in DRI process?
23. An ore contains 65.25% soluble iron. If the iron ore contains only hematite, calculate the hematite & oxygen content of the ore.
24. What is degree of oxidation?
25. What are the different technologies now being adopted worldwide for production of sponge iron?