

Subject : Steel Technology

Examination : M-Met-Engg, Industrial Metallurgy, 2nd Semester, 2025

Metallurgical & Material Engineering Department

Ref No. : Ex/PG/MetIM/T/127A/2025

Answer to the following questions.(any Five)		Marks
1	State & explain different physical, chemical & thermal processes that occur in different zones of Blast Furnace during ironmaking along with a neat drawing of 'Blast Furnace Temperature Profile'	20
2	Briefly describe the different Blast Furnace irregularities stating the their occurances, causes and possible remedies.	20
3	Why agglomeration is necessary in ironmaking ? Write short on Sintering and Pelletisation	2+9+9
4	What is reducibility of iron ore? Name the factors on which reducibility of iron ore is dependant on & describe how.	4+16
5	Describe in detail about the description of LD convertor & the steel making process in the convertor.	20
6	Write in detail about the Continuous Casting Process of steel. What are the difference between static casting & continuous casting?	15+5
7	Briefly describe the ferro alloys and their mode of addition in steelmaking. Compare the production processes of different ferro alloys through Carbothermic, Silicothermic and Aluminothermic route.	5+5+10