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Subject : IRONMAKING

Examination : B-Met-E 3rd Year 1st Sem Supplementary 2017

Metallurgical & Material Engineering Department

Ref No. : EX/Met/T/313/2017 (s)

Answer any five from the followings

		Marks
1	State the advantages & disadvantages of steel scrap over DRI. What is 'Blast Furnace Off Gas'? Briefly describe Corex process.	6+6+8
2	Briefly describe the different Blast Furnace irregularities.	20
3	State & explain different physical, chemical & thermal processes that occur in different zones of Blast Furnace during ironmaking	20
4	Differentiate the followings : (any five) - Oxygenated Blast & Humidified Blast - Coal Based & Gas Based Sponge Iron Process - Smelting Reduction Process & Direct Reduction Process - Diffusion Deoxidation & Precipitation Deoxidation - LD Process & LDAC Process - Pig Iron & Sponge Iron	4 X 5
5	Write short notes on the followings (any four) - Finex Process - HBI - Rotary Kiln Process - Fluxed Pellet - Coke - Continuous Casting Process (V type)	5 X 4
6	What is reducibility of iron ore? Name the factors on which reducibility is dependant on & describe how.	4+16