BE-VII / INST/CBGS / Andustrial Process NOV-2016 Control

Q.P. Code: 635500



[Total Marks: 80

	FARJAT, RE	
	(1) Question No.1 is compulsory.	
	(2) Answer any three questions from Question Nos. 2 to 6.	
((3) Assume suitable data if necessary.	
1. Ans	swer any four of the following questions:-	
	(a) Explain Crystallization curve and its significance.	5
((b) Discuss baffle flue pass for temperature control with respect to	5
	boilers.	
((c) Explain bypass control in rotary compressor.	5
((d) Draw and explain hazard triangle.	5
	(e) Discuss the control strategies for startup heater.	5
2. (a)	Draw and explain P & I for reaction crystallizer.	10
(b)	Discuss the control scheme for tray dryer.	10
3. (a)	Draw the process flow diagram for refinery and explain FCCU.	10
(b)	List the classifications of evaporator and derive its steady state model.	10
4. (a)	Explain the process of distillation and discus different packaging used in	1 (
	distillation column.	
(b)	With the help of diagram explain any three control strategies for heat	1 (
	exchanger.	
5 (a)	Comment on objectives of combustion control system in Boiler and	1(
	explain various types of control strategies.	
(b)	Explain different control parameters considered in Gas Turbine.	1 (
6. (a)	Explain cascade control scheme for reactor.	5
(b)	Explain different sensors, analyzers and valves used in Iron and Steel	10
	industry.	

(c) Discuss in detail IEC classification of Hazardous areas.