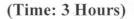
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[Total Marks: 80]

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- (1) Question No.1 is compulsory.
- (2) Answer any three questions from Question Nos. 2 to 6.
- (3) Assume suitable data if necessary.

1	Answer any FOUR of the following questions:- (a) Draw and explain crystallization curve. (b) Explain capacity and economy with respect to evaporator. (c) Discuss control parameters in gas turbine. (d) What do you mean by runway reaction? (e) Explain intrinsic safety.	20
2	(a) Draw process flow diagram of iron and steel industry and explain its process description.	10
	(b) Discuss feedforward control scheme of steam heater with merits and demerits.	10
3	(a) Draw and explain process flow diagram of refinery industry.	10
	(b) What is dryer? Draw its process flow sheet symbol. Explain drying rate curve.	10
4	(a) What is start up heater? Discuss its process and safety control.	10
	(b) Discuss cascade control scheme of evaporator.	10
5	(a) Explain the process of Penicillin-G production along with its control parameters.	10
	(b) Discuss overhead and top product composition control scheme of distillation column.	10
6	Write short note-	
	(a) Oxygen trimming combustion control in boiler.(b) IEC and NEC hazardous area classification.	10
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