

End Semester Examination (ESE), 2021

Semester: Sixth

Subject: Automatic Process Control

Subject Code: Ch-601

Total Marks: 56 Marks

Time: 2 Hrs 30 minutes

All questions are compulsory

Q. No	Description	Mark
1	Fill in the blank:	1×10=10
1a	Automatic Process Control is often linked to _____ Industrial Revolution.	1
1b	In Proportional control output of the controller is directly proportional to the _____.	1
1c	Transmission of a digitalized analogue signal is known as _____.	1
1d	Reset Control is commonly known as _____.	1
1e	Self-Operated Controllers work by the power developed by the _____.	1
1f	_____ control normally creates offset.	1
1g	Industrial automatic controllers are classified into two broad groups _____ and _____.	2
1h	In case of an exothermic reactor load variables are _____ and _____.	2
2	Define Open Loop Control with some examples.	3
3	State some differences between Electrical and Electronic Transmission.	3
4	Write short notes on any three:	3x3=9
4a	On-OFF Control	
4b	Hydraulic Controller	
4c	DDCS	
4d	Close loop control	

5	Describe with a net sketch the working of self-operated Thermostatic valve.	4
6	Explain the application of control engineering in Flow control.	4
7	State some industrial applications of Automatic Control.	4
8	Write few lines on Hydraulic Controller.	4
9	Explain Automatic Process Control System with the help of an example.	5
10	Explain the Integral Control system with diagram.	5
11	Explain the working of a Pneumatic Control Valve with a diagram.	5

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