## TE/SEM V/MTR7/CBSG5/32A. Dt:30/11/2017.

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Q.P. Code :09877

	(3 Hours)	Total marks: 80
8		

N.B.:	(1)	Question no.1 is compulsory	
	(2)	Attempt any three questions from remaining.	
	(3)	Figures to the right indicates full marks	
	(4)	Assume suitable data if required. Justify the same.	
Q.1	A)	Define the terms related to sensors:	5
	B)	Static error, Precision, Reproducibility, Threshold Explain Hall Effect Sensors	·5
	.C)	Explain actuator range and power consideration.	5
	D)	Draw block diagram showing Components of hydraulic system	5
Q.2	A)	Explain different types of Errors in signal conditioning.	10
	B)	Explain angular velocity measurement using tachometer.	10
Q.3	A)	Explain magnetic flow meter in detail.	10
	B)	How DC motor can be used to Drive actuating system?	10
Q.4	A)	Differentiate between Analog and Digital Sensors.	10
	B)	Explain any one method for acceleration measurement.	10
Q.5	A)	Explain stepper motor drive in brief	10
	B)	Explain how potentiometer can be used for displacement measurement.	10
Q.6		Write short notes on:	20
	A)	Optical Light sensors	
	B)	Solenoid	
	(C)	Servo Amplifier	
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