Roll No Total Pages: 03				
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	N	ÆASUREMENT AND ME-401-N	CONTROL	
Tir	ne : Tì	ree Hours]	[Maximum Marks: 75	
No	q	There are eight questions in the questions in all, selecting at leach Section. Each question can	east one question from	
		Section A	•	
1.	Diffe	Differentiate the following:		
	(i)	Dead band and hysteresis		
	(ii)	Sensitivity and Linearity	•	
	(iii)	Backlash and Drift		
	(iv)	Accuracy and Precision		
	(v)	Mechanical and Electrical L	oading. 15	
2.	(a)	Describe in brief various f	unctional elements of	
		generalized measurement sys	stem. 7.5	
	(b)	Write a technical note on C	hauvlet's criteria. 7.5	
Section B				
3.	(a)	Explain in detail hydraulic ar	nd pneumatic load cell.	
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(b)	Write short note on vibration pick-ups and decibel meters.			
(a)	With neat sketch explain in detail Moore Fringe.			
	7.5			
(b)	Define Gauge factor of a strian gauge. Also discuss			
	Pirani gauge. 7.5			
Section C				
(a)	How variable flow meters different from variable			
	area meters? Explain in detail. 7.5			
.(p)	Discuss in detail drag force and turbine flow meters.			
	7.5			
. (a)	Explain in detail high pressure and low pressure			
	measurement. http://www.kuonline.in 7.5			
(b)	Write a technical note on pyrometer. Also explain			
	total radiation and selection radiation pyrometers. 7.5			
Section D				
(a)	What is Servomechanism? Discuss in detail the			
	process, control and regulators with regards to			
	control systems.			
(b)	Differentiate with the help of examples manual and			

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automatic control system.

8. (a) State the following with regards to control system:

- (i) Forward Path
- (ii) Summing Point
- (iii) Take off point
- (iv) Loop
- (v) Transfer Function (vi) Stability.

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(b) Write the various rules of block diagram reduction technique for predicting transfer function.
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