Max. Marks: 75

Code No: 57025

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2016 INSTRUMENTATION AND CONTROL SYSTEMS

(Common to ME, AME)

Time: 3 Hours

Answer any Five Questions

All Questions Carry Equal Marks						
	EB.	RD	-140			
1.a)	What do you mean performing a calibrat		bration? give	the steps which	are necessary in	
b) - .c)	Differentiate between What are the differen explain thein briefly.	t standard inpu			onse of a system?	RØ
2.a) b)	Briefly explain the va Describe the constru limitations and advan	ction and wor				
b) c)	Explain constructions List out the advantag Explain the constructions measurement of vacu	es and disadvar ction, working	ntages of bellow and theory of	vs over diaphragm f thermal conduc	tivity gauges for	RØ
H49	Explain the working a) Ultrasonic level c) Hot wire anemom	·····i: b) Cry	lowing with sui	table examples: el indicator	[5+5+5]	RE
5.a)	Describe the working advantages and disade What are the advanta Explain the construction accelerometers.	vantages. ges and disadv	antæges öf centr	ifugal spëed tacho	ometër?	RØ
6.a) b)	List the main advanta Explain one method gauge Describe the working arrangement for mea	of temperature ividea g principle of s	compensation u	sing an adjacent a		RØ
7.a)	What are the hygrosochygrometers. Describe the working Explain the construct and limitations?	principle of h	ydræulie load ce	n. RE	RØ	Ro
8.a) b)	What are the basic el Describe a speed con		•	A.		FE