R09

Code No: C7504

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations, March/April 2011 STATE AND PARAMETER ESTIMATION THEROY (CONTROL SYSTEMS)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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1.	a. Explain the maximum likely hood method with a suitable example.b. Explain mean square error with equations.	[12]
2.	Discuss about absolute value cost function.	[12]
3.	Explain linear minimum variance method with an example.	[12]
4.	Write short notes on : a. Non Linear estimators b. Un biased estimators	[6+6]
5.	Explain the sensitivity and error analysis by using the state estimation pro	blem
	$Z = h\theta + n$.	[12]
6.	Discuss about discrete time Kalman filter with an example.	[12]
7.	Explain in detail about fixed log smoothing process.	[12]
8.	Discuss the process of sequential estimation with at least one example.	[12]

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