Explain one dimensional gradient search algorithm.

Explain modified LMS algorithm.

State & explain Kalman filtering.

State & explain QRRLS algorithm.

M.E. Second Semester (Electronics & Tele.) (Full Time) (C.G.S.- New) 13341 : Adaptive Signal Processing : 2 ENTC 1

AU - 3465 Max. Marks: 80 Answer three question from Section A and three question from Section B. What are random variable and random process? Explain in detail classification of random 13 7 6 5 13 7 7 7

Due credit will be given to neatness and adequate dimensions.

Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - A

Assume suitable data wherever necessary.

OR

SECTION - B

OR

7

6

P. Pages: 2

1.

6.

7.

a)

b)

a)

b)

Time: Three Hours

Notes:

1.

2. 3.

4.

variable & random process.

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8.	a)	State and explain recursive minimum MSE for scalar random variables.	7
	b)	State and explain Kalman filtering problem.	6
9.	a)	Explain convergence analysis of RLS algorithm.	7
	b)	Explain RLS algorithm.	6
		OR	
10.		Explain RLS algorithm, Also drive mean square error in RLS algorithm with optimization.	13
11.	a)	Explain following terms.	7
		i) System Identification.	
		ii) Inverse modelling.	
		iii) Prediction	
		iv) Interference cancellation.	
	b)	How eco is minimized with the help of adaptive filtering.	7
		OR	
12.	a)	List the various applications of adaptive filter? Also explain them briefly?	7
	b)	Explain the roll of adaptive filter in Foetal monitoring?	7

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