Rubric: Assignment -2:-

[1.] Finding lag 1 ACF for MA(1) (0.25) Finding the extreme points (0.5) Showing how absolute is bounded (0.25)

- 12.
 - a) Proving by includion or recursive relation (0.5)
 - b) showing the operation of $E(\Sigma'G'w_j)$ $=\sum G_{i}E(w_{i})=0$
 - c) Finding voro (xt) with simplified

Oppression. with simplified d) Finding Cov (Xt, Xtth) upremion. e) Just saying that any of the above depends on t. 1) Finding out the limiting expression of 9) and d) which are independent of to (0.5) g) comment on how to draw from white noise Wt "dN(0,00) by wing "dN(0,1) samples. Row to draw from the by Comment on wing Wt. (0.25)

h) Finding the right expression of expectation proviouse and covariances.

and comment not being function of t.

(0.5)

witing the voots of corresponding polynomial correctly and their conditions. (0.5)

Finding the conditions based on 4, and 42

Finding the conditions based on 4, and 42

wrently in simplified expression. (0.5)

[4.) Finding roots of AR polynomials correctly.
(0.5)

Showing ACF Junctions correctly without

Plotting the ACF's correctly (0.25) OB Writing cornect code for plotting ACF.

(0.25) (0.25) Showing the plots cornectly (0-25) Identifying the parameter redundency by succenful factorization (0.5) Determining the Condition for Causuality (0.25)

cherking the condition for invertibility (0.25)

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Just plotting the three series on some graph with cornect Code. (0.5)

Comment on diagonostic capabilities (0.5)
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Generating 1000 samples and showing correct ACF and PACF photos. (0.5)

Comment on their patterns. (0.5)