## Annighment Full Marks: 60

explaining application of Time Series

Analysis Anchoin.

2. Consider en ARMA(1,1) model given by xt - xxt-1 = zt + B zt-1 where \$=0.1, 8 = 0.4 =-2 Zt ~ ID(0,02), with 0=1

Deres e sorple of mje 40, x,x,-,x,0 for this.

colarlate ĝ, ĝ, --, ŝ, for the dete. theme calculate 951. Confidence Internal for S, . Does it contain the model value of S?? (20)

3. Dr. w random number x, 1, 1, 2, -, 1 x 40, 0 < x; < 9.

Consider it and IID (0,02) requence. Colare 8, 8, , -- , 87.

On the benin of these, test for independent -1 identical distribution of the sequence.

[ Une all 4 methods disconned in the class.]

Also use test besel on Recks.

Total answer should not exceed 10 typed pages. ] Send in Plf format.