## Digital Signel Processing Lab. Experiment 11 - Design of Digital Bulknush Giller Using Pulmer Thebrushon and Impube Invariant Method

I Re-Lab Questions

Sola.

1. What are the properties that are maintained fame in the thousen of analog gilber into a signific field.

She Both Analog and Digital filters have Stable and colored tospine. The transfer function is always a fatational system with coefficient that are real numbers. Both the filters are telescoped by likear aquestions.

2. What is most by imposse invariant method of lesigning IIR Fictor?

Adn. This method is used for designing discrete time IIR gicker from Continuous time dister in which the impose hes pense of the continuous time Justem is Sampled to produce the impulse bestons of distrete time Justem will be a Sum of Shighes Copies of the acquery hesponses of Continuous time System.

What are the properties of Billinear Transformation?

- i) Analog DC mys to digital DC.
- i) Subjectly and add of that for function is preserved.
- ii) the entire dw-casis in the S-plane is mapped exactly once around one und circle in z-plane.

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