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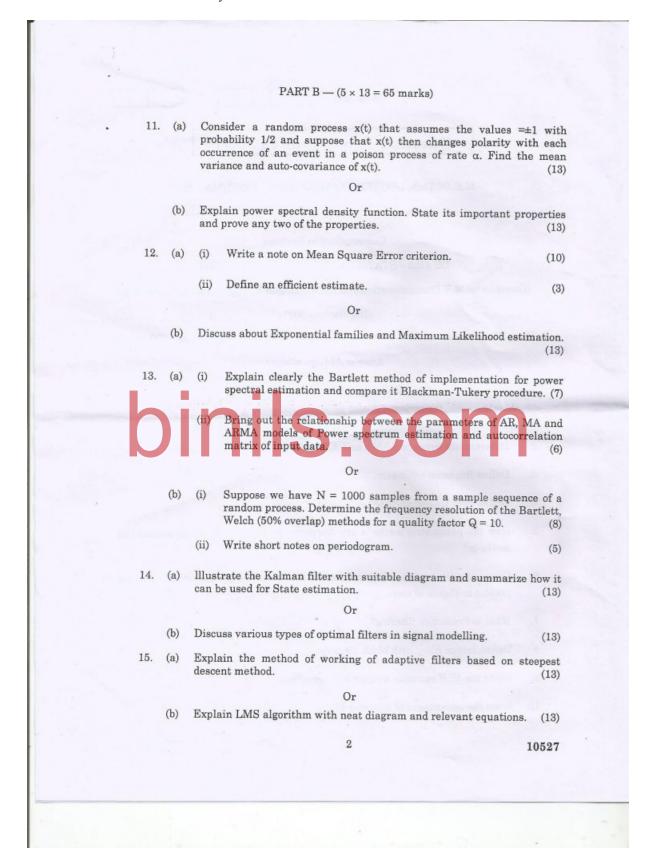
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	Per No.
	Reg. No. :
	Question Paper Code: 10527
	M.E./M.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023
	First Semester
	Communication Systems
	DS 4152 – STATISTICAL SIGNAL PROCESSING
(C	Common to: M.E Communication and Networking/M.E. Digital Signal Processing
	(Regulations 2021)
Tir	ne : Three hours Maximum : 100 mar
	Answer ALL questions.
2. 3.	Define Bias and Variance. Differentiate between ARMA and AR models. Define Bayesian estimator. Define Best Linear unbiased estimator.
5.	How the parametric methods are overcome the limitations of non-parametr methods?
6.	Compare various non-parametric methods of power spectrum estimation wit respect to Figure of merit quality and variability.
7.	What is Prediction filtering?
8.	Define lattice filter with block diagram.
9.	Write the-Hoff equation widrow-Hoff equation.
10.	State the advantages of adaptive filter.

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 (a) Explain the estimation of signal in presence of Guassian Noise with linear Observations. (15)

PART C — $(1 \times 15 = 15 \text{ marks})$

Or

(b) Interpret the role of statistical signal processing in the field of communication engineering.

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