PAPER V: MODERN PROBABILITY THEORY AND STOCHASTIC FROCESSES: Text Book: Treatment and Scope as in Modern Probability Theory by B.R.Bhat (Wiley Eastern Ltd.) : Sets and classes of Events - Chapter 1 Random Variables UNIT I - Chapter 3 Frobability Space _ Chapter 4 Expectation and Moments - Chapter 5 UNIT II : Distribution Functions UNIT III : Convergence of Random Variables-Chapter 6 omitting Convergence of Distribution Functions-Chapter 8 omitting Section 8.2 only). non od abustattpen ne-n Text Book: Treatment and Scope as in Stochastic Process by J. Methi (Wiley Eastern Ltd.) UNIT IV : Stochastic Processes - Chapter 2 - Chapter 3 (omitting sections 3.6, 3.7 & 3.8). Markov chaims : Markov Processes with Discrete State Space-Poisson process- Chapter 4 (omitting sections 4.4, 4.5 & 4.6). Renewal Process and Theory (onitting sections 6.5., 6.6, 6.7 and 6.8). Stationary Processes and Time Series - Chapter 8 (omitting sections 8.1 & 8.4).

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