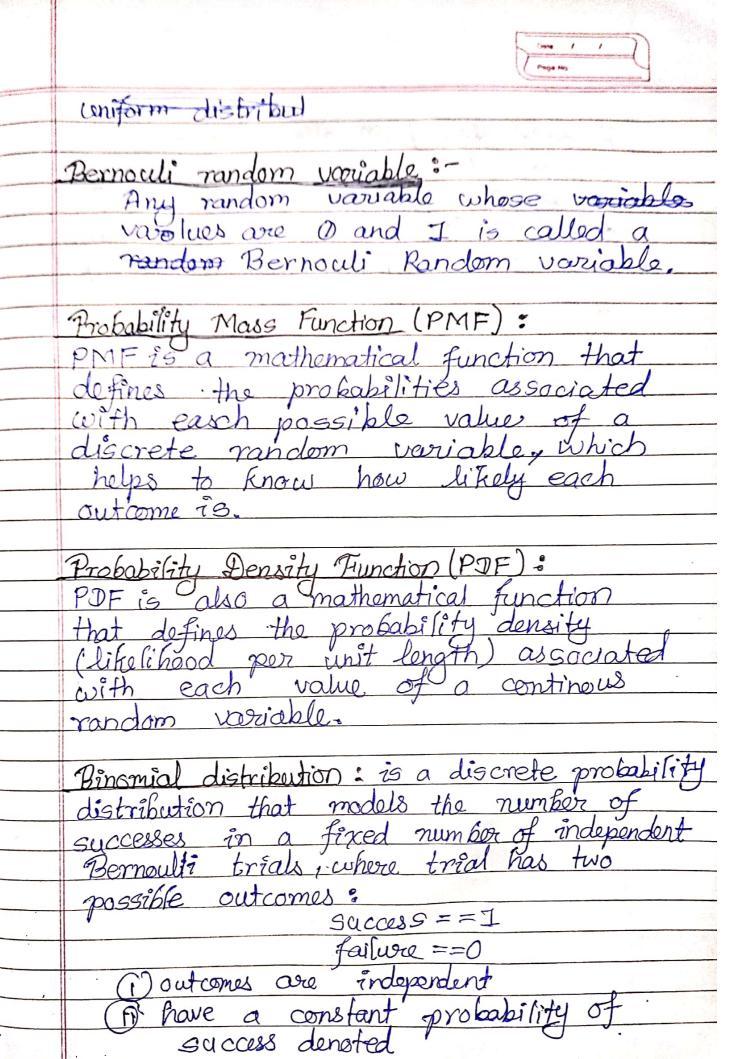


Random variable A random variable is a variable whose value is unknown or function that assigns values to each of an experiments outcomes. - either discrete or continous - used to quantify outcomes of random occurrences. It's a mathematical function themaps outcomes of a random experiment to numerical values. Discrete random variable: takes on countable number of distinct values. eg: no. of heads obtained Continous random variable: A continous random variable can take any value within a given range eg: height, weight or time fakon to complete a task Deterministic variable: A determi is a variable also known as deterministic processes or phenomenon, is a variable in which the the outcome is entirely predictable or can be determined by rules or egn

Probability distributions Probability distribution is a mathematical function or a description that defines the likelihood of various outcomes or values that a random variable can take on. Discrete Probability distributi A discrete Pal is associated with a discrete random variable # Continous random variable : is associated with a continous random voriable, which can take on any value within a given range or interval. Discrete Probability distribution 1 PMF 2 Binominal distribution 3) Bernouli distributh Continous Probability distribution Cumulative distribut fun Ection Uniform distribution Chi-squared distribution



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	Binomial distribut allows us to
	calculate the probability of obtaining
	a specific number of success (k)
	out of a fixed number of trials (D)
	calculate the probability of obtaining a specific number of success (K) out of a fixed number of trials (D) with constant probability of success(p)
	Peak: $\mu = np$
	Peak: $\mu = np$ Spread: larger $n == narrower$ and taller distribution
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