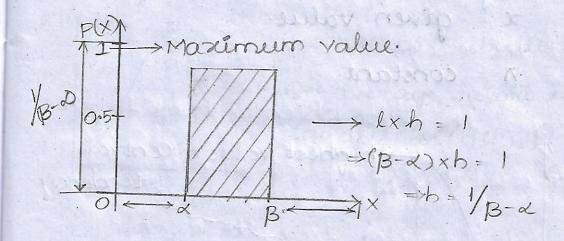
able

UNIFORM RANDOM VARIABLE:

A reardom variable is said to be uniformly distributed over the interval if its Probability density function is given by:  $P(x=x) = \frac{31}{B-x} \text{ if } x \leq x \leq B \text{ otherwise}$  it is equal to 0



NORMAL RANDOM YARIABLE:

The random variable x in the normal equation is called the normal random variable.

$$P(x=x) = \frac{1}{\sqrt{2\pi}} \times e^{\frac{2-(x-\mu)^2}{26^2}}$$

$$[e^x = \exp\{x\}]$$

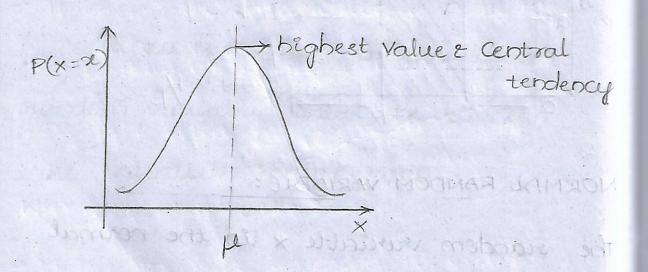
where 5 = standard deviation

swoodle = mean x 12 suglif (cr x)

5<sup>2</sup> = Yariance

2 = given value.

 $\Lambda$  = constant.

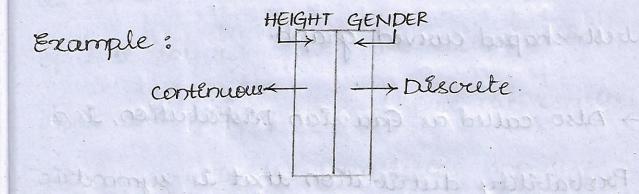


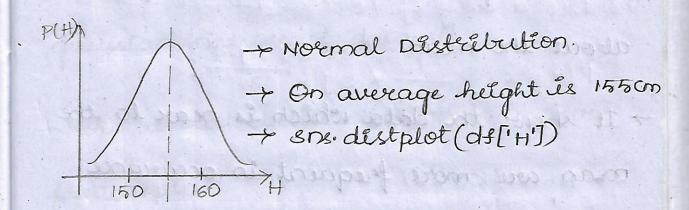
\* The above quaph is a Bell shaped curve and symmetric.

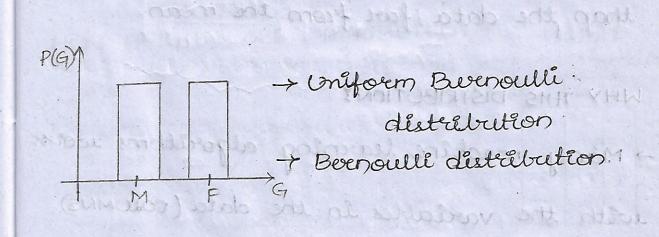
the plot of PDF means the random random variable is a normal variable.

+ The above plot represents the d

"DIST PLOT - KDE (PDF) O'C HIST PLOT







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