	Contract VI	BANTE COLLEGE	N. S. C. S. S. L.		
SALMABINT AZ C1204 103858 20 SMS 3450 - 4452 ASSIGNMENT.	DUCK	HM.			
43019/11/12/11					
1) let e=001101110 Jest.	of with	n=10,	K=3. Pe	form Gena	(
Sampon .					
e=0011011101 n=10 k=3 Defermine the Passil	le K-b	to patter			
0011011	7 1 0 1	1			
001,011,110,10		1, 110,10	1		
Occurance	C	12			
	1	1			
001	i	Ĭ			
110	0	0			
DII	0	0			
iii	2	4			
101	1	4	8 2 2		
(V)		Ef2=	14		
0 11					
Compute styles	725.				
$\Rightarrow \int_{K}^{2} = 2^{k}$	2f-n				
OKN	3				
1=10 2=8 5=14					
2 = 8 5 f = 14					
2771					3

Coupule Diplences 5= 8/ (14)-10 DSK= SK-1 5= 11-2-10 = 1.2-(-4.4) -> Sx-1= 2k-12f2-n 1252 = Sx - (52 + 52) 5-23-1(14)-10 = 1.2 - (-4.4+-7.2) S= (4 ×14) - 10 S= 5-6-10 Compute the pralye P. value = (-7.2, 5.6) => S2 = 2k-2 E52 n =(-7.2, 2.8) S= (23-2 X 14)-10. P. value = (-8-6, 12-82) S = 2.8-10 S = -7.2 $S = 2^{k-3} + 2^{k-1}$ $S = 2^{k-3} + 2^{k-1}$ = (-8-6, 64). $S = 2^{\circ} \times (14) - 10$ $S = 1.4 - 10^{\circ}$ 5= -8.6

2. Use the rejection netword to generate random variate with probability dense function.

f(x) = 2x, 0 \le x \le 1 $\int \Omega |apon| \times \int 2t dt = x^2, \quad 0 \le x \le 1$ Cf(x)= 1 f(2)=x2, x=1, c=1 f(x) = x2 x=Ir random number > r, u(o,1) 1, 12 from u(0,1) $\Gamma_2 \leq Cf(x) = 2x$ E(x) = 2/3 = 0.6667 $\sqrt{ar(x)} = 1/8 = 0.0556$ Since C=1 = 12 < 2 Ir. of the Conclision hold, accept x=10.