Exercise 7
Let A denotes "returned clothes from branch A" P(A) = 1/2
Let B denotes "returned clothes from branch B" P(B) = 3/10
Let C denotes "returned clothes from branch C" P(c) = 1/5
Let D denotes "returned clothes bcs defects"
Let M denotes "returned clothes bes change mind"
Let W denotes "returned clothes bes wrong size"
i. P(M A) = 0.3
ii. P(C W) = P(W C)P(C)
P(WIA)P(A) + P(WIB)P(B) + P(WIC)P(C)
= (3)(1)
$\left(\frac{3}{8}\right)\left(\frac{1}{5}\right)$
$\left(\frac{3}{5}\right)\left(\frac{1}{2}\right) + \left(\frac{1}{3}\right)\left(\frac{3}{10}\right) + \left(\frac{3}{8}\right)\left(\frac{1}{5}\right)$
(5/12/3/10/8/15/
= 3 = 0.158
19
iii. P(BID) = P(DIB)P(B)
P(DIA)P(A)+ P(DIB) P(B) + P(DIC) P(C)
$= \left(\frac{1}{2}\right)\left(\frac{3}{10}\right)$
$\left(\frac{1}{10}\right)\left(\frac{1}{2}\right)^{+}\left(\frac{1}{2}\right)\left(\frac{3}{10}\right)^{+}\left(\frac{1}{4}\right)\left(\frac{1}{5}\right)$
= 3 = 0.6
5

Exer	cise	2 8																
P(M)=	0.5	1															
a)	P (M)	= 1	- 0 .	51													
			= 0	.49														
b)	PC	RIN	- (۸	0.0	095													
	PCF	ZIN) =	0.0	17													
	P(F	2):	P (RIN	1) P	(M)) +	P(p	IÑ.) P (M)							
												19)	:	0.0	567	8		
	i)	P(RIN	٠ (١	0.	o 95												
	ii)	P (MIR) =	PC	RIA	1) F	(M)									
						P(I	2)											
				:	(0	.09	5)(0.5	1)									
						.050												
				:	0.8	53												
	iii)	P(RI	M)	=]	– Р	(R	M)										
						- 0												
					= C).98	33											
		Nu	mbe	er (of F	ema	les	fron	n ur	ban	are	a						
			0 . 9															
		:	983	00														

Exe	?rcis	se '	9									H					
Let	S	den	otes	the	ever	rt "	Sul	oject	ts s	łudie	d s	ent	to p	riso	" n		
Let	Co	lenoi	tes t	he e	vent	* (choso	e to	plec	ad g	juilty	3"					
PC	(S)	= 0.	45														
PC	CIS	;) =	0.4														
PC	CIS	'):	0.5	55													
:)	D/	' 5')	= 1-	DC	(2)												
1)		-	= -	-	-												
				.55	-												
ii)	PC	SIC	= ($\overline{}$	_	_	is)	_	_								
				PC	:15)	P(S	5) +	PC	CIS	.) P((s')						
			=				4)(0										
						.45`) + (0.5	55)	(0.5	5)						
			Ξ	0.3	373												
iii)	P(S'16	e) :	=	- P(SIC	:)										
111				+	- 0.	+											
				= 0	.62	7											
iv)	PC	c)	= P	CCI	5)(P(s) +	PC	cls	') P((s')						
			= (0	3.4)	(0.4	5)	+ (c	.55)((5.55)						
			= 0	. 483	25												