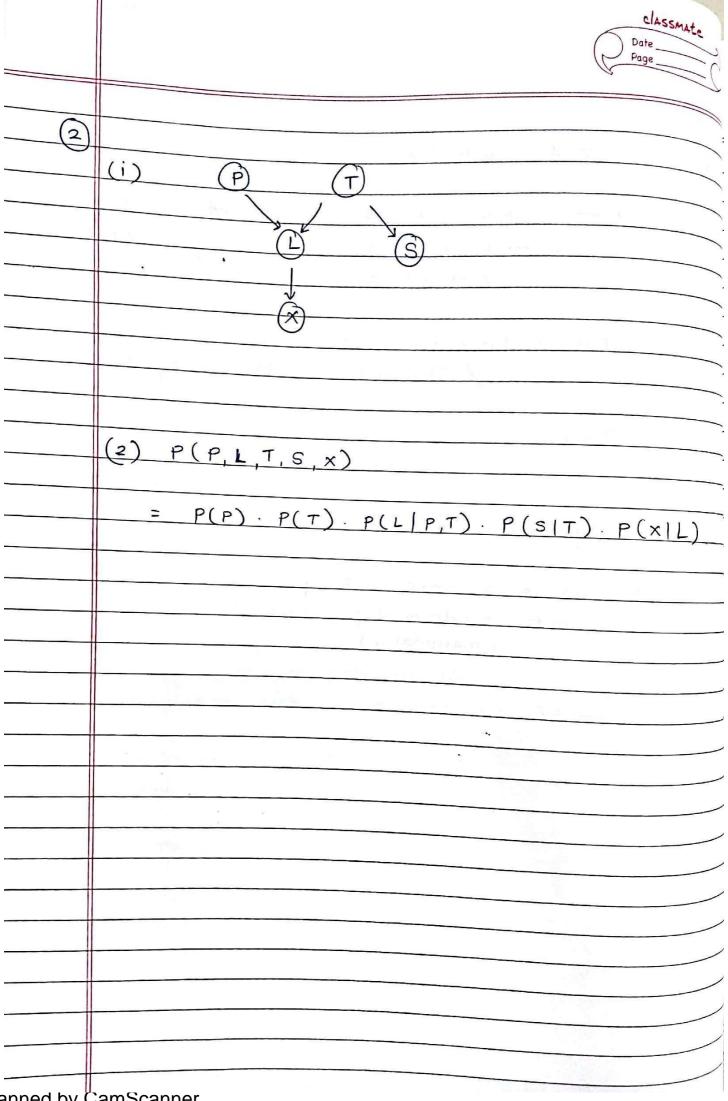


Scanned by CamScanner

	classmate Date Page
0	(c) Z # 2, w, q p.
0	
	For all three cases above, w,y & Observed. : Blocked by I.
	(a) y 11 w.
	As w is a parent of y, y is not conditionally indep of w. (marginally)
	FALSE.



		Classmate Date Page
3	3. A	3.B
	a — b — d c — e	а— b d
	(1) d, e 11 a 1 b.	
	a — b , d (c — e	Every path to a' from 'd' and è' goes through 'b'.
	TRUE.	
	ь <u> </u>	
	a -b - q	As you can see, even if we cut 'c' out, we can reach 'e' from 'b' through 'd'.
	FALSE.	

	classmate
	Date Page
	The state of the s
<u>(3</u>)	(2) 3.A
~	p (a, b, c, d, e)
~	
	= T (a,b) x (2,b,c,d) x (s(C,d,e)
7	2 2
er and a second	3.B
<u> </u>	
ř.v.	p (a,b,c,d,e)
7.0	
N.	= T \ \(\frac{1}{2}\) \(\lambda_1\) \(\frac{1}{2}\) \(\lambda_2\) \(\lambda_2\) \(\lambda_2\) \(\lambda_2\) \(\lambda_1\) \(\lambda_2\) \(\lambda_2\) \(\lambda_2\) \(\lambda_2\) \(\lambda_2\) \(\lambda_1\) \(\lambda_2\) \(\lam

42,00	
+6 ¹)-	
+20	5 1 5 11
riin.	
	992 000 mm 2f-
	179.00
A-23	
V-03-	
1-11-	
· 123	
canned b	y CamScanner

		5
Date		2)
Page	_ (

4	BE
	A
	J M
	(1) P(B, ~E, A, J, ~M)
	= P(B) x P(~E) x P(A B,~E) x P(J A)
	* P(~M/A)
	- P(B) - [- P(F)] - P(A)B - D - 1-T(A)
	$= P(B) \times \left[1 - P(E)\right] \times P(A B, \sim E) \times P(J A)$
	× [1-P(M/A)]
	= 0.001 × 0.998 × 0.94 × 0.9 × 0.3
	(Substituting values)
	j
	= 0.000253
	$(2) P(A) = [P(A B) \times P(B)] +$
	[P(XIM) xP(M)]

	CIASSMAL	
6	DatePage	
(2)		

(2)	P(A)	2	P(A B,E) x P(B,E)
_ /			P(B,E1A).

[... Using Bayes' Thm.]

Now, $P(A|B_iE) = 0.95$ $P(B)E) = P(B) \cdot P(E) \cdot (Indefalent)$

= 0.00002

P(B, E. A) = 1

one of its parents must've happened.

The parents' joint prob given A' is i'.

 $P(A) = 0.95 \times 0.000002$

= 0.0000019

OR P(B,E|A) = P(A|B,E) + P(A|B,~E) +
P(A)~B,E) + P(A|~B,~E) 7

	classmate Date Page
5	$\frac{y_1 - y_2 - y_3 - \dots y_n}{ x_1 - x_2 }$
	$P(x, x,, x_n, y, y_2,, y_n)$ $= \frac{N}{1} \frac{Y_1(y_i, y_{i-1})}{Y_1(y_i, y_{i-1})} * \frac{Y_2(x_i, y_i)}{Y_2(x_i, y_i)}$
	where $\Psi(y_i, y_o) = \Psi(y_i)$.

	Page					
	Summing up over values of 'C'					
	2 over values of					
(6)	Summing up 0:					
	a b p(a,b)					
	0.336					
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
	1 1 6.144					
	(1) If a 4 b,					
	(1) If a 11 b, then p(a,b) = p(a) * p(b).					
	From above table, let us test if this eq," hold					
	From above table, let us 1201					
	For $a = 0$ and $b = 0$,					
	p(a=0,b=0) = 0.336. $p(a=0) = p(a=0 b=0) +$ $p(a=0 b=1)$ $= 0.336 + 0.264$ $= 0.600$					
	p (b=0) = p(b=0 a=0) +					
	p(b=0 a=1)					
	= 6.336 + 0.256					
	= 0.692.					
	Now, p(a=0) x p(b=0) = 0.6 x 0.692					
	= 0.4152					
	≠ o.336					
	# p (a=0, b=0)					
	: FALSE					
	FALSE					

	classmate
	DatePage
	J\$
	(2) a 11 b C
	then P(a,b/c) = p(alc) * p(blc)
	Lets test for C=0.
	p(a,b c=0) = 0.192 + 0.048 + 0.192 + 0.048
	= 0.48 p (a c = 0) =
4	
1	
1	
Scanned	∥ by CamScanner