= PCQ 14 (B) 4 = 1 = 0.00 0.99 (70) 0.99 0.95/\0.05/0.05 \0.07\0.98 0.01 - 0.95 PCDIT) = PCDAT) (H=0, T=0) TPGT) = 0.01.0.95 + 0.99.0.02 = P(C=T, O=T, B=T, A=T) + P(C= T, O=T, B=T, A=) 49(60T, 00T, BOF, ACT) + PC (00 39 OCE BAFRA) = 0.371.05.0.2.0.5+0.377.0.15.8952.0.5 0,412 - 27-0.8.0.8+0.412.0.277-0.8-0.5 4) A) P(B(A) = (A (B) A) (A) A and B are Inde PCA=T, 13=T, C=T, D=T, E=T, F=T, G=T) a) = PCa) ANBACADAEAFABA) = 0.45 + P(E/A)BA(ADAF) = 0.45 - 0.78 . PCFI ANBACAD) = 0.45.0.78.0.7. PCDIANBAC) 0.2 = 0.45.0.78.0.7. D.5 P(CIANB) 20.45 - 0.78 . 0.7 . 0.5 - 0.377 - 0.2 - 0.5 = 8.4.631 - 10-3

b)
$$PC7=T, A=F, B=T)$$

= $PCD \mid A \cap B)$
= $0.15 \cdot 0.5 \cdot 0.2$
= 0.015

c)
$$R(C=T, D=T)$$

$$= PX(=T) \cap P(D=T)$$

$$= \frac{1}{4}$$

$$p(c=T, o=T)$$
= $P(c=T, o=T, B=T) + P(c=T, o=T, B=F)$
= $P(c=T, o=T, B=T, A=T) + P(c=T, o=T, B=T, A=F)$
+ $P(c=T, o=T, B=F, A=T) + P(c=T, o=T, B=F, A=F)$
= $0.377 \cdot 0.5 \cdot 0.2 \cdot 0.5 + 0.377 \cdot 0.15 \cdot 0.2 \cdot 0.5 + 0.412 \cdot 0.277 \cdot 0.8 \cdot 0.5$
= 0.2184746

4)a)
$$P(B|A) = P(B\cap A) = \frac{0.16}{0.8} = 0.2 = P(B)$$

A and B are independent.

= 0.45. 0.78. 0.7. PCDIADBOW) i

= 045 · 078 PCF | ANBACAD

50-20-118.0-1.0.2-0.311.0-34.0=

8 - 01 - 15 d - 15 d