Q٤.	a) Pr (A,B,C,D,E,F,G,H)
	= Pr(A) · Pr(B) · Pr(C(A) · Pr(D(A,B) · Pr(E(B)) · Pr(F(C,D) · Pr(G(F) · Pr(H(E,F)
	- (r(A) (r(b) pr(c(A) fr(b) fr(c(B) fill (c(b) fr(d)) fr(d))
	c) Pr (a,76, c, d,7e, f,7g, h)
	= Pr(A) Pr(7B) Pr(C1A) Pr(D1A,7B) Pr(7E17B) Pr(F1C,D) Pr(7GF) Pr(H17E,F
	= 0.2 x 0.3 x PrcciA) x 0.6 x 0.1 x Pr(FIC.D) · Pr(GIF) · Pr(HITE,F)
	= 0.0036 x Pr(CIA). Pr(FICID). Pr(GIF). Pr(HITE,F)
	() D () () D () D () D () D ()
	d) Pr(7a,6) = Pr(A=0) Pr(B=1) = 0.8 × 0.7 = 0.56
	Pr(7e(a) = Pr(E=0) = Σb Pr(E=016) Pr(b)
	= Pr(E=0 B=0)Pr(B=0) + Pr(E=0 B=1)Pr(B=1)
	= 0.1 x0.3 + 0.9 x0.7
	= 0.03 + 0.63
	= 0.66
	e) A is conditionally independent of all modes B is conditionally independent of all nodes C is conditionally independent of all other modes given A
	B is conditionally independent of all nodes
	C is conditionally independent of all other modes given A
	D A.B
	Е В
	F C, D
	G F
	H E/F
	f) A.B.C.F

