A: State transition IT initial state	(I dlaw
P	(a ·
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$C_{n,p}(O(G)) = C_{n,T} \left(\rho(y_{1}^{n}) \prod_{t=2}^{T} \rho(y_{t}^{n}(y_{t}^{n}) A) \right)$ $\theta \cdot A, \pi, y_{\alpha} \cdot \xi_{\alpha} = \frac{1}{T_{t=1}^{n}} \rho(x_{t}^{n}(y_{t}^{n}))$	(b
Du mor = ang max ln ρ (D 1 μ) Mu) = 0
Dru Tr & Dra tanes = 2 (x = (e) (n N(n+ 1)) (e) Tr & Tr	
7 0 1 (y = u) (-1 (n (\sin \x - \frac{1}{2} \) 1 (y = u) \ \frac{1}{2} (n - \frac{1}{2} \) 1 (y = u) \ \frac{1}{2} (n - \frac{1}{2} \) 1 (y = u) \ \frac{1}{2} (n - \frac{1}{2} \)	$(n_{\uparrow}^{n} - y_{\alpha})) = 0$
52 Ily, = 6) 2 = Ex I (y,=w) y = Pa= 25	I(y+=16).21
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2	builton un Cita f	
6	ست تدلیوی لند	
	(z). N(z(0, I), p(a)z	9.
أوند بدائ هار	اراستمای ایج د A کورندس	به ساس علی مانس ا ساد
	ع ای کی سرد	السفارة الكورتم ١٨
ير (2) انتقال ما ما	ره ها ترسط ۸ می سواند - اساریاس	
i-th item of	of a multivariate normal is its mean vector. mean vector of multivariate normal distribution is arginal normal distribution for the i-th variable.	s equal to

(3 c) well

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(nQ(1)= E (n) [p(n1) n, 21 21, 1, 1/4) (4 dlow = Eza (n) [(n) [(n) p() (z)).p(x) 1z(n), \, \, \, \, \, \, \, \, \, \) = (n TT p(de) + Ez(1) _ z(1) [2 (p(a(N) (z(n) h... hu))] = Latt plul = (Ezu) (N [Zu] (n Poisson (n (n) 1)u) 50(1, /a). T Q(16) reds coodinate ascent, mean field Q(hu) x exp3 (no(hu)+ EE[zu] (n Poisson (n) 1 hu) } xexp3(x-1) Ln 1 - B1 + EE[zu](2(n) Ln 1 -2/2 - (n))} = 6 amma (a - E E [z (a)] a (") , B) = Q(No)

(5 O) Low

$$p(\alpha | X, B) = p(\alpha, X, B) = p(x/\theta) \cdot p(\theta | \alpha, B) \cdot p(\alpha, B)$$

$$= \sum_{\alpha} p(x/\theta) \cdot p(\theta | \alpha, B) \cdot p(\alpha, B)$$

$$= \sum_{\alpha} p(x/\theta) \cdot p(\theta | \alpha, B) \cdot p(\alpha, B)$$

$$= \prod_{i=1}^{p} \left[\frac{\Gamma(\alpha+\beta)}{\Gamma(\beta)} \right] \theta_i \theta_i^{j} \left(1 - \phi_i \right)^{\beta-1} \rho(\alpha,\beta)$$

fox [r(x+B)] if to p(x,B)

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