472 2007/8 g2 b/c. (a) X->7-> 2 Markon iff p(7/4) = p(7/4) rymetric in , & 7 ie. X > Y > 7 iff X & Z are conditionally judge which is a segund: a condition. 1(1/1)= Epu, y, (05 purpy) = 4 (05 1/3 + 14 (05 1/4/14 + 14 (05 1/4 - 14 (05 1/4/18 = = (0,2 = /2

$$I(XZ) = \{ \rho(x,y) (og \rho(x,y)) \}$$

$$= \frac{1}{7}(og 2 + \frac{1}{7}(og 3/16 + \frac{1}{7}(og 3/1$$

$$I(X,Z) = \frac{1}{3}\log_2 + \frac{1}{4}\log_3 + \frac{1}{3}\log_3 + \frac{1}{3}$$