X: 0 123 U 6 6 7 P(2): 0 15 2K 2K 3K B 2R 3B7B (i) First therable 2 15 (ii) Evaluate P(XCO, P(XZG, (iii) P(O<XKS) (i) "if X' is a random validable, then E P(24) =4, i.l, 0+15+215+215+315+15+215+715+15=1 782+98-1=0 ~~ b.w. The Thomas with the said of the (i) P(x<6) = P(X=0) + P(X=1) - - + P(X=0)= 0+15+215+215+318+15 = 815+152 = 10 +1 P(XC6)= .81 $P(x \ge 6) = P(x = 6) + P(x = 3)$ = 2187+3157+15 = 119

(iii)
$$P(0 < x < 5) = P(x=1) + P(x=2) + P(x=3) + P(x=4)$$

= $1 < x < 5$
= $1 < x < 5$